

Abridged
Decimal Classification

DEWEY.



LIBRARY SCHOOL

"To learn to classify is in itself an education" — ALEX. BAIN

ABRIDGED

Decimal Classification

and

Relative Index

for libraries, clippings, notes, etc.

Edition 2

By

Melvil Dewey MA LLD

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CONTENTS

	PAGE
Explanation	3-24
Change to full form	3
Plan	3
Summaries	4
Tables	4
Choice and arrangement of heads	5
Sequence of allied subjects	5
Coordination	5
Catch titles	5
Form distinctions	6
Mnemonics	6
Relativ subject index	7
What the relativ index includes	8
Relativ location	8
Sizes on shelves	10
Catalogs	10-11
Name catalog	10
Shelf-list	10
Subject catalog	11
Dictionary catalog	11
Suggestions to users	11-17
Numeration	11
Number of figures used in class numbers	11

	PAGE
Suggestions (continued)	
Familiarity with tables	12
Use of index	13
How to determin subject of book	13
Assigning class numbers	14
Book numbers	17
Variations practicable	18-22
Cautions	18
Letter notations for changes	19
Fiction and juvenils	19
Biograpy	20
Parallel libraries	20
Combining language and literature	21
Broken order	21
Pro and con division of topics	22
Unassigned numbers	22
Other uses	23
Bookstores	23
Scrap-books	23
Index rerums	23
Topical indexes	24
Tables	25-74
Index	75-192
Index supplement	193

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Publisher's Note

The simplified spellings used are strongly recommended for general adoption by both the American and English Philological Associations, including nearly all the prominent scholars in English now living. The publishers regret the prejudice that certain readers will feel against these changes, but after careful study of all objections urged against them, they find the weight of scholarship and reason wholly in their favor, and feel compelled to bear a share of the prejudice which some must endure before the great benefits of a rational orthography can be secured.

Full information on request from Simplified Spelling Board, 1 Madison av., New York.

Abridged Decimal Classification^a

EXPLANATION

Before beginning to use the classification at least the paragraphs in large type should be carefully read. Those interested will find still fuller explanation in the smaller type.

This abridgment is made in answer to a strong demand for a short form adapted to the needs of small and slowly growing libraries. They wish short class numbers, but it is a mistake to assume that they will have only works on general subjects. Even the smallest library is likely to have a few books or pamphlets on the most specific topics of the omitted subheads, and as these minor subjects will differ in each library, it is obviously impossible to make any abridged classification that will meet every want. Cases will certainly arise that can be met only by the unabridged classification, which aims to include all subjects treated in books, pamphlets, or articles.

(See also Relativ subject index, p. 7; Use of index, p. 13.)

Change from short to full form. These short (three-figure) forms can be changed to the full class numbers at any time without other alteration than adding extra figures to those here given.

Plan. In this classification the field of knowledge is divided in nine main classes, numbered 1 to 9. Cyclopedias, periodicals, etc. so general in character as to belong to *no* one of these classes, are marked 0 (naught), and form a tenth class. Each class is similarly separated into nine divisions,

^a The confusion and annoyance to the many users of this system caused by printing unauthorized variations have forced the publishers to insist strictly on the protection afforded by the copyright laws. Every library and individual user has, however, entire freedom to make such variations as he thinks he needs, under the simple restrictions found necessary to protect the rights of others as explained on page 19, Letter notations for changes.

general works belonging to *no* division having 0 in place of the division number. Divisions are similarly divided into nine sections, and the process is repeated as often as necessary, but in this abridgment 0 is not used beyond the third figure. Thus 512 means Class 5 (Natural Science), Division 1 (Mathematics), Section 2 (Algebra), and every Algebra is numberd 512. This class number, giving class, division, section and sub-section, if any, is applied to every book and pamphlet belonging to the library.

Where 0 occurs in a class number, it has its normal zero value. Thus a book numberd 510 is class 5, division 1, but *no* section; i. e. the book treats of division 51 (Mathematics) in general, and is limited to no one section, while geometry which is so limited is markt 513; 500 indicates a treatise on science in general, limited to no division. A naught occurring in the first place would in the same way show that the book is limited to no class; e. g. a general cyclopedia which treats of all nine classes.

The books are arranged on the shelves in simple numerical order, all class numbers being decimal. Since each subject has a definit number, all books on any subject must stand together. These tables show the order in which subjects follow one another. Thus 512 Algebra precedes 513 Geometry, and follows 511 Arithmetic.

Summaries. The first page of tables shows the 10 Classes into which all topics are divided. The next page shows the nine Divisions of each of the 10 classes, and is useful as a bird's-eye view of the whole scheme.

Tables. Following these two summaries is the abridged classification, which repeats, in proper order, all the classes, divisions, and sections, with such sub-sections as are used in this abridgment. Synonymous terms, examples, brief notes, dates, and various catch-words are often added to the simple heads for convenience of users, who thus get a fuller and clearer idea of the field which each number covers. Therefore all references to numbers should be lookt up in the tables; never in the summaries, which are really only a table of contents of the complete tables.

Choice and arrangement of heads. The selection and arrangement of heads can not be explained in detail for want of space. In all the work, philosophic theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preserved in books, has been appreciated from the first, and theoretic harmony and exactness have been repeatedly sacrificed to practical requirements.

Sequence of allied subjects. Wherever practicable, heads have been so arranged that each subject is preceded and followed by the most nearly allied subjects, and thus added convenience is secured both in catalogs and on shelves; e. g. Building (690) follows Mechanic trades (680) at the end of Useful arts, and Architecture follows near the beginning of Fine arts.

The student of Biology (570) finds fossil life or Paleontology (560) before, and vegetable life or Botany (580) after, this followed in turn by animal life or Zoology (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicine, thus giving a regular progression from the fossil plant thru the vegetable and animal kingdoms to the living man.

Coordination. Theoretically, the division of every subject into just 10 heads is absurd. Practically, it is desirable that classification be as minute as possible, without use of added figures; and the decimal principle, on which our scheme hinges, allows 10 divisions as readily as less.

This principle has proved wholly satisfactory in practice, though apparently destroying proper coordination in some places. In the full classification this difficulty is entirely obviated by the use of another figure, giving nine sub-sections to any subject of sufficient importance to warrant closer subdivision. In history, where classification is made chiefly by countries, a single figure is added, as in the other classes, to give a tenfold geographic division. Wherever naught followed by another figure is added, it indicates a division into periods.

As all history is by countries, and as close geographic subdivisions are needed for local history and various other uses, the rule is whenever the same number is subdivided both geographically and by periods, to insert naught before the time or period figure; the 0 showing a change from geographic to period division, e. g. 942.05 England in time of the Tudors.

As in every scheme, many minor subjects are under general heads to which they do not strictly belong. In some cases, these heads are printed in a distinctive type; e. g. 429 Anglo-Saxon, under English philology. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful.

Catch-titles. In naming heads, strict accuracy has often been sacrificed to brevity, for short familiar titles seemed more important than that the heads given should express with fulness and exactness the character of all books cataloged under them.

Form distinctions. The classification is mainly by *subject* or *content* regardless of form; but a form distinction for general treatises, which is found practically useful, is introduced at the beginning of the class, where the first numerals would otherwise be unused. These form distinctions apply only to general treatises, which, without them, would have a class number ending in two naughts.

Thus, in Science there are many compends, dictionaries, essays, periodicals, and societies, treating of Science in general, and so having 0 for the division figure, but treating it under different forms, and, therefore, divided into sections according to this form: 501 for philosophy or theories of Science, 502 for compends, 503 for dictionaries. This treatment is as nearly as practicable uniform in all classes. Brewer's *Reader's handbook* is 803, the first figure being 8 because the book is clearly on literature; the second figure 0, because limited to no division of class 8; and the third figure 3, because the book is a dictionary.

Mnemonics. Arrangement of heads has been sometimes modified to secure mnemonic aid in numbering and finding books without the index; thus China has always the number 1. In Ancient history, it has the first section, 931; in Modern history, under Asia, it has 951. Similarly the Indian number is 4; Egyptian, 2; English, 2; German, 3; French, 4; Italian, 5; Spanish 6; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all divisions by languages or countries. Italian 5, for instance, is in 035, 055, 065, 450, 850, 945, and many others. This mnemonic principle is specially prominent in Philology and Literature, and their divisions, and in *form* distinctions used in the first nine sections of each class. Philosophy, methods, or theory occurring as a head is always 1; dictionaries and cyclopedias, 3; essays, 4; periodicals, 5; associations, institutions, and societies, 6; education, 7; polygraphy or collections, 8; history, 9. In numerous cases several minor heads are grouped together as Other, always numbered 9.

While Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals are 5, Asia is 5, Oratory is 5, etc. Even were it possible, to limit 5 to Italian would waste numbering material, and results would not justify cost. The purpose is to give practical aid, not to follow a fanciful theory. A cataloger marking a German grammar, remembers that all Philology begins with 4, and, as German is always 3 and grammar 5, he knows the number must be 435. Italian (5), poetry (1), is as plainly 851 with no danger of being mistaken for "poetry of grammar" or "theory of Asia," because the numbers also have that meaning. This feature is an *aid*, not the regular method, and in all doubtful cases one refers at once to index or tables. Suggested difficulties are usually creations of ingenious theorists and not an outgrowth of practical experience in using this plan.

Wherever practicable, this mnemonic principle is used in subdividing sections. 558, Geology of South America, is subdivided by adding the *sections* of 980, History of South America. Geology of Brazil then must be 558.1 : mnemonically the first 5 means Science; the second 5, Geology; 8, South America; 1, Brazil. Any library attendant or regular user of the scheme recognizes 558.1 at a glance as Geology of Brazil. This mnemonic feature is of great practical utility in numbering and finding books without catalog or index, and in determining the character of any book simply from its call number. The advantage of mnemonic correspondence has however never outweighed any claim of greater usefulness. In many cases choice between numbers was hardly perceptible; e. g. whether in Philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In such cases, preference was given to mnemonic numbers, and 20 years' experience has now proved this wisest.

Relativ subject index. Following the tables is the most important feature of the system, an alfabetic index of all the heads, which refers by class number to the exact place of each in the preceding tables.

The index might be made on any of the various dictionary plans. The simplest was however chosen. Only short heads are given with a brief indication in doubtful cases of the point of view taken in assigning the class number.

This index is designed to guide both in numbering and in finding books. In assigning numbers, the most specific head that will contain the book having been determined, reference to that head in the Index gives the class number which should be assigned. Conversely, in finding books on any given subject, reference to the Index gives the number under which they are to be sought on the shelves, in the shelf list, or in the subject catalog. Whenever a subject not in this index comes up, it should be looked up in the full index so that the classification may be uniform with that of other users.

The index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will

hardly fail to get the right number. A reader wishing to know something of the tariff looks under T, and, at a glance, finds 337 as its class-number. This guides him to the shelves, to all the books and pamphlets, to the shelf list, to the subject catalog on cards, to the index of books charged at the loan desk, and, in short, in simple numeric order, thruout the whole library to anything bearing on the subject. If he turns to the tables, he will see that it means class 3, Sociology; division 3, Political economy; section 7, Protection and free trade; but the number alone is enough to classify the book or to find it, for either cataloger or reader. If he had lookt under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he would still have been referd to 337.

Had he lookt for "railroad" he would have found after it 13 separate entries, each preceded by a catchword indicating the phase of the subject in the scheme. A book on railroads may be a treatise on the desirability of government ownership, control, etc., and then is clearly a question of social science; or it may be a practical handbook for an employee explaining business methods of railroading, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows which phase of the subject he wishes to examin. Moreover, the 3 and 6 beginning the numbers indicate clearly the character of each class. But even if the significance of these figures were entirely disregarded, no confusion would result; for, on consulting either of the numbers in the catalog, in the tables or on the shelves, the difference would be clearly seen.

What the relativ index includes. This index includes also, as far as found, all synonyms or alternativ names for the heads, and many other entries that seemd likely to help a reader find his subject readily. Tho the user knows just where to turn to his subject in the tables, if he consults the index he may be sent also to other allied subjects; where he will find valuable matter which he would otherwise overlook.

Most names of countries, towns, animals, plants, etc. have been omitted, the Index containing only those which are in the tables; e. g. it can not enumerate all the species of trilobites, but when the classifier has found from the proper reference books that Remopleurides is a trilobite, the index will send him to 565 and he can classify his monograf on that subject.

Relativ location. Economy and simplicity calld not only for the subject index, but also for some plan of consolidating the two sets of marks heretofore used; the one telling

of what subject a book treats, the other where the book was shelvd. By relativ location and decimal class numbers, the simple arabic numbers have been made to tell of each book and pamphlet, both *what* it is, and *where* it is.

In arranging books on the shelves, absolute location by shelf and book number is wholly abandond, relativ location by class and book number being one of the most valuable features of the plan.¹ In finding books, the class and book numbers on the backs are followd, the upper being the class and the lower the book number. (*See* p. 17, Book numbers.) The class is found in its numeric order among the classes, just as the shelf is found in the ordinary system. Shelves are not numberd, as increase of different departments, opening of new rooms, and any arrangement of classes to bring books most circulated nearest the delivery desk, will at different times bring different class numbers on any given shelf. New books, as receivd, are numberd and put in place, in the same way that new titles are added to the card catalog.

Not only do all the books on any given subject stand together, no additions or changes ever separating them, but the most nearly allied subjects precede and follow, they in turn being preceded and followd by other allied subjects, as far as practicable. Readers not having access to the shelves find short titles arranged in the same order in the shelf list, and full titles, imprints, subject and cross references, notes, etc. in the subject catalog.

Parts of sets, and books on the same or allied subjects, are never separated as they are sure to be, sooner or later, in every library arranged on the old plan, unless the great and needless expense of frequent rearrangement and recataloging be incurd. In this system both class and book numbers remain unchanged thru all changes of shelving, buildings, or arrangement.

Among hundreds of points raisd by librarians, as to its practical workings and usefulness, the only one in which it is

¹For full explanations regarding forms of book numbers best used with this scheme of classification, see p. 17, and *Library notes* no. 11.

not shown to be equal or superior to the old systems is that in this relativ location a book which this year stands, for instance, at the end of a certain shelf, may not be on that shelf at all another year, because of uneven growth of the parts of the library. This slight objection, however, inheres in any system where books are arranged by subjects, rather than by shelves, windows, doors, and similar non-intellectual distinctions.

Sizes on shelves. Most libraries have abandoned close distinction of sizes. It is true that this distinction saves a little space, but at far too great a cost ; for every distinction of sizes makes a parallel classification. If books are grouped in five sizes, one must look in five places before he can be sure of having seen all the books on a given subject.

It is better to shelve octavos and all smaller books together in one series, and arrange in parallel libraries only quartos and folios, which are too large to stand on the regular shelves, showing the series in which any oversize book is put, by a size letter prefix to the book number ; e. g. 749 qB, to show that book B on Artistic furniture is too large for the regular shelves, and so is placed in the "q" or quarto series. Another way is to use a wood or pasteboard dummy, to show the location of a book not in its regular place. But, however solved, there is no conflict between the size problem and the *Decimal classification*. (See also *Library notes* no. 11, vol. 3, p. 428-29.)

CATALOGS

Any system of catalogs may be used with this scheme. But the two essentials of even the simplest system are the author (or preferably name) catalog and the shelf list. The chief use of the system for catalogs is for the shelf list and for the class catalog on cards.

Name catalog. In the name catalog on cards, arranged strictly by names of authors and of persons or places written about, the class number holds a subordinate place, yet is constantly useful. If printed, it appears in a single column as in the relativ index, and, where there is no subject catalog, one can rapidly pick out the books on any desired topic by glancing down the column for the class number wanted.

Shelf list. The class number makes the list the most useful form of brief subject catalog. Each page gives in columns accession number,

author's name, and brief title of every book in the library on the specific subject bearing that class number.

Subject catalog. In the card catalog of subjects the classification is mapped out above the cards by projecting guides, making reference almost instantaneous. Subjects are arranged in the 1, 2, 3 order of their decimal subject numbers exactly as in the classification tables, and the cards of each subject are then further arranged alphabetically by authors.

The printed subject catalog on this plan is also the most compact and satisfactory in use. Under each class number are given the resources of the library on that subject, the heading giving for convenience the name as well as the number of the subject; e. g. "513 Geometry." General notes are printed in finer type under general heads, and an index at the end shows where to open the book to find any topic. As class numbers are put in place of page numbers, this index serves for any catalog, list or library arranged on this plan.

Dictionary catalog. A dictionary card catalog may be as readily used with this system as with any other, but its advantages are largely supplied by the subject index, which is in itself a skeleton dictionary catalog. If however the subject card catalog is clast, the alphabetic index referring to class numbers makes the single set of cards serve both as clast and dictionary catalog. Instead of giving the book titles under each head, the index number refers to all those titles simply and directly.

The advantages of the dictionary and clast catalogs are therefore united, not by mingling them together, and so losing much of the simplicity of one and as much of the excellence of the other, but by really using both, each with its own merits.

SUGGESTIONS TO USERS

In referring to tables, hold the book in the right hand and turn with the left. The class numbers then show very plainly on the left margin and reference is greatly expedited. Some prefer to hold the book in the left hand, but in any case the eye should follow the left margins wholly.

Numeration. In thinking or speaking of the class numbers, to avoid confusion *always divide at the decimal point, and name it*; e. g. read 942.9, "nine forty-two, point nine," never "ninety-four twenty-nine." If "point" were omitted the ear might readily interpret 270.2 as 272, while "two seventy, point two" can never be misunderstood.

Number of figures used in class number. In very small collections two figures might do till growth required further

division ; but it is economy, and saves handling the books a second time to use at least three figures at first, even in the smallest collection.

Whether there are one or 1,000 books on any topic, they take no more space on the shelves if classed minutely, and the work is done once for all. When large accessions come, even if a century later, this number will not have to be altered. A library having only 20 books on economics should use the full scheme, for the whole 20 would go on a single shelf, and take no more room, and the index would refer more accurately to what was wanted. The number of books you have on any subject has in this system no special weight. In a relative location, any number of consecutive topics without a book yet in them, waste no space on shelves or in catalogs; the numbers are merely skipped. This plan not only does no harm, but has the considerable negative value that looking for the number and finding it blank or skipped, shows that you have nothing on the subject, — a piece of information second in value only to finding something, for one need no longer search.

The practical objection to close classing is that it gives a longer number to charge in a lending library. In a reference library full sub-sections should be used. Where a short number is imperative, it is well to give the full class number on another part of the book plate, not to be used in charging, but as a guide to the contents of the book. Thus when a classifier has once examined a book, and found out just what it is about, the record is preserved for the benefit of others.

Familiarity with tables. Get a general knowledge of the scheme by learning the 10 main classes (you will soon know the 100 divisions also without special study), so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of subdivisions will come gradually, but rapidly, from use. Using the tables alone, and then always verifying your result by the index, you will more rapidly acquire knowledge of the classification and facility in its use. To do this decide first to which of the 10 classes the subject belongs ; next, take that class as if there were no other, and decide to which of its 10 divisions the subject belongs ; then, in the same way, select section and sub-section, thus running down your topic in its grooves, which become ten-fold narrower at each step.

Use of index. *As a check against error, use the index freely even tho familiar with the scheme.*

By consulting the index of the complete classification, subjects omitted in this abridgment will be found assigned with allied subjects to the proper head. Reference to this full subject index will decide at once most doubtful points, and no topics omitted from the abridged tables and index should be numbered without such reference, as otherwise great annoyance may result from finding that the number used conflicts with that on the great mass of printed and ms catalogs, cards, indexes and other bibliographic aids arranged by this system.

Subject of a book. To determin the subject of a book consult :—

1 **The title**, since it is generally chosen to show what the book is about. But, as many titles are misleading, never class from title alone, but always examin also

2 **Table of contents**, which is the best guide to the true subject. If there is no table of contents read

3 **Headings of chapters**, or marginal topics.

4 **Preface**. Unless already certain, glance thru this to catch the author's point of view, and verify impressions gaind from title and contents.

5 **Reference books**. If preceding means fail, consult reliable bibliografies, clast and annotated catalogs, biografic dictionaries, histories of literature, cyclopedias, reviews, etc., for information about the character of the book.

6 **Subject-matter**. If the five shorter methods above fail, examin the subject matter of the book itself, and if still in doubt, to avoid mistakes, put aside on an " under consideration " shelf till you can examin more thuroly or consult

7 **Specialists**. Experts, competent to define their true subject and relation, are usually glad to examin any new books in their departments enough to class them. Old ones they know where to put already.

After deciding what the book is about, find this subject in the tables, either thru the index or by using the tables directly, which for the beginner is a longer process, seldom to be trusted without subsequent reference to the index ; e. g. Pollock's *Land laws* might naturally be clast from the

tables alone as "333, Land ; ownership ; rights ; rent," which seems exactly to fit this book. The index, however, shows two numbers, both referring to land laws, but from different points of view ; viz, 347, legal, and 333, economic. The object of this book, as seen in the preface, is to give a popular presentation of English statutes pertaining to land-holding, not to discuss the history and theory of land laws from the economist's point of view ; and it should be classed "347, Realty," which might have been missed but for the index.

Assigning class numbers. 1 Practical usefulness is the chief thing. Put each book under the subject to the student of which it is most useful, unless local reasons "attract" it to a place still more useful in your library. See p. 16, § 7.

2 The *content* or the real subject of which a book treats, and not the *form* or the accidental wording of the title, determines its place. Following this rule, put a philosophy of art with Art, not with Philosophy ; a history of mathematics with Mathematics, not with History ; for philosophy or history is simply the *form* which these books have taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they are most useful.

3 Always remember that the question is not where one would probably look to find a particular book, but under what subject is the book of greatest value ; e. g. it is of little consequence whether "one would be apt to look" under 595 for Darwin's *Formation of vegetable mould*, but of much consequence that one studying earthworms should find that book in "595 Worms," since it is chiefly valuable as a study of the habits of earthworms. Any one wanting that special book should look for it in the name catalog under Darwin.

4 Assign every book to the most specific head that will contain it. This will vary in different libraries according to the number of figures used, e. g. the specific head for "compulsory vaccination" in the full tables is 614.4738 ; but in a library using only three figures, the most specific number possible is 614, which includes everything on public health.

If there are only 10 books on a given subject it is useful to have them still farther grouped by topics or form of treatment, for otherwise, they have only accidental order which is of service to no one. If a reader wishes a specific subject, he is sent instantly to the exact place by the subject index; if, however, he wishes a specific book, he should go, not to the shelves, but to the name catalog, where he can find its place quickest. If he wishes to study the library's resources at the shelves, he will be *greatly helped by close classing*.

A library recently adopted the plan of putting all books of a division together, if they had but few; e. g. all mathematical works were marked 510. It took just as many figures, cost just as much labor in most cases, and, if a man wanted the one calculus in the whole library, he had to search through the 150 volumes in 510, when otherwise he would instantly have found it standing alone as 517.

A teacher showing his pupils the material on any subject, if there are only 20 books, would surely put together those covering the same points, even if there were but two. Much more should librarians group closely their greater collections, that readers may gain something of the advantages of an experienced guide.

This gives every specialist his own distinct library. If a student of science in general, he is sent to class 5; if his department be zoology, his library is 59; if his specialty is shells, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject being a library by itself shows resources and wants as no catalog can show them. A catalog can not be made to take satisfactorily the place of handling books themselves. This advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only are admitted, close classification is worth its cost in the added power it gives.

5 The predominant tendency or obvious purpose of a book usually decides its class number at once. Still a book often treats of two or more different subjects. In such cases assign it to the place where it will be most useful, and make references under all subordinate subjects. Give these reference numbers both on book plate and subject card, as well as on reference cards.

It is one of the marked advantages of the plan that these references, notes, etc., may be added from time to time as found convenient. It is necessary at first to find only the predominating tendency of the book in order to classify it. Subject references are added whenever found necessary.

Add these numbers indicating more closely the character of the book as rapidly as possible, and invite all specialists to call the librarian's attention to every desirable subject reference noticed in their reading. These numbers take little room, are easily added, and in most cases are very valuable.

6 If two subjects have distinct page limitations, class under the first, and make analytic reference under the second. But if the second is decidedly more important or much greater in bulk, class under that, with reference under the first. Always put a book under the first subject, unless there is good reason for entering it under another.

7 Consider not only the scope and tendency of each book, but also the nature and specialties of each library.

Any subject of which a library makes a specialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme have two or more places, according to these different sides; e. g. a book on school hygiene, which a medical library puts under 613, has also a place in 371, where the educational specialist requires it.

8 If a book treats of a majority of the sections of any division, give it the division number, instead of the most important section number with subject references. Unless some one section is so prominently treated as to warrant placing the book in it, class a book on four or more sections under the division number; e. g. class a volume on light, heat, and sound, under the head most fully discussed, and refer to it from the others; but if it treats also of mechanics, class as 530, or general physics, tho no mention be made of hydrostatics, pneumatics, electricity, magnetism, or molecular physics.

9 To secure uniformity, make notes for future reference of all difficulties and decisions; for it is even more important to put books on the same subject together than to put them in the absolutely correct place. These notes should be written either on the broad margins of the classification tables, or on an interleaved copy, or on standard-size slips arranged by class numbers, like the class catalog. (See also p. 23, Index rerums.)

10 Keep collected works, libraries, etc. together, and assign them like individual books to the most specific head that will contain them; or assign to the most prominent of the various subjects on which they treat, with subject references from the others; or separate and class the parts as independent works.

This last practice constantly grows in favor, and many librarians now largely disregard uniform bindings and "series" lettering, and, unless contents of volumes are so connected that they can not be separated, class each under the most specific head that will contain it.

11 Class translations, reviews, keys, analyses, answers, and other books about specific books with the original book, as being there most useful.

Book numbers. With this abridged classification the following rough alfabetic arrangement of books in each class by author's surnames is recommended:

Keep together names beginning with the same letter by marking books by the first author under any letter with the initial of the author's surname; books by the second author under that letter with the author's initial followed by 1. Use the same initial and figure for all books by the same author in any one class, and distinguish different books by adding lower-case letters. E. g. if in class 942, History of England, the first books under G were Green's *History of the English people*, Gardiner's *Outline of English history*, Guizot's *History of England* and Green's *Short history of the English people*, and were received in the order named, the book number of Green's *History* would be G, Gardiner's *Outline* would be G1, Guizot's *History* G2, and of Green's *Short history* Ga.

In order to keep lives of the same person together book numbers in individual biography should be assigned from the name of the person written about instead of from name of writer. These biographies are marked B and arranged in a single alfabetic series.

For fiction, omit the class number altogether and alphabet by authors' surnames. Both fiction and biography should be numbered by the author table devised by C: A. Cutter, and different books by the same author distinguished by adding a, b, c, etc. to the Cutter number.

For a full discussion of book numbers see *Library notes* no. 11, which is wholly given up to an explanation and tables of the systems which have been found most useful.

VARIATIONS PRACTICABLE IN ADJUSTING TO SPECIAL LOCAL REQUIREMENTS

Some users assume that adoption of the *Decimal classification and relative index* carries with it other parts of the general system which the author has used at Amherst, Wellesley, or Columbia colleges or in the New York state library. In fact, the plan in each of these libraries differs somewhat from all the others, and many of the more than 300 libraries now using this system have adopted still other variations; for the special constituency, circumstances, and resources of each library must be considered in deciding what is best for it. This decision should be made by one familiar, not only with the library and its needs, but also with all methods of any merit and the comparative ease and cost of introducing them into any given library.

Cautions. Having decided to adopt the system in its decimal form as worked out and printed, it must be determined whether to adopt certain variations, noted in 1-4 below as practicable, and in some cases useful and desirable. The inexperienced user is very likely to feel entirely competent, after once reading the tables (in fact, without reading more than a single page regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations), to institute a series of "improvements." Experience proves that nothing could be more disastrous. It seems a simple matter to put a topic a line higher or lower, but in some cases this may affect over 100 different entries in the index, and there is no possible way to be sure of correcting them except by examining each of thousands of heads. Any changes except as authorized under the next heads, would conflict with the full tables, so that closer classification, if required later by the growth of the library, could be made only by changing whole numbers instead of by simply adding extra figures. Care has been taken that no number in this short form should vary from that in the full tables; e. g. instead of printing as the number for Ireland only 941.5, the numbers 941.6-.9 are given for the different groups of counties, just as in the full tables. If the numbers for these counties were designated by adding figures to 941.5, the closer classification would be omitted in this edition, for small libraries are not likely to have enough on Ireland to make subdivision necessary. But if the books on the various Irish counties were all numbered 941.5 the number would disagree with those on all printed catalog cards and cooperative lists and, if the change to full class numbers should ever be made, the last figure on every book and on every record of that book would have to be altered, while nothing would have been gained originally in brevity.

Frequently proposed changes, carefully studied out and submitted as improvements, are shown by our old records to have been adopted and used in the exact form proposed, till considerations which had not been foreseen forced us to change to the form as printed. Even after years of

experience one is not safe in pronouncing on an apparent improvement without consulting the voluminous records of previous experiments. Even those who have used the system longest have sometimes been misled into adopting changes which on trial they were compelled to reject, going back to the original form at the cost and confusion of two changes.

The user who adopts the printed form avoids the criticism sure to be aimed at any possible scheme. The moment he makes one "improvement" he must defend all the heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed, and blunders are the author's, not the user's. The cooperation of those interested is invited in eliminating any errors found either in tables or index.

The following brief notes show the most important variations found practicable in the "relativ index system," oftener called the "Decimal or Dewey system."

1 Letter notations for changes. To protect other users from confusion, the publishers insist, as the copyright entitles them to, that these numbers shall not be printed with changed meanings without some clear indication of the fact in the number itself. If the reasons that led us to adopt the form printed are not conclusiv to another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. This can be readily done by using a letter, or some other character than the 10 digits, to mark changes, e. g., if you wish a different set of subdivisions under 630, make it out to suit, and number it 63a, 63b, 63c, etc. It will arrange in its exact place and exact order without difficulty, and no other user of the system will be confused by the numbers. In the index, cancel the 1, 2, 3, etc., you have discarded, and write in the a, b, c, etc., adopted. **Whenever you use our exact numbers, use also our meanings for them exactly as indext.** If you wish to change a head from one place to another, cancel it where it stands, and *leave that number blank* in the tables. Then insert the head in its new place by the use of a letter instead of the figure omitted as above, as if it had never been in the tables.

This plan of introducing letters or other symbols wherever each user pleases, will give all needed freedom to the personal equation and desire for originality, and meets all real wants for peculiar classification in peculiar cases.

Fiction and juvenils. In some cases it is usually best to modify class numbers by letters as above. In popular libraries half the circulation is often fiction. A great saving is effected here by omitting the class number entirely, as directed in these abridged tables, and using merely the book number, it being understood that *no* class number means fiction. After fiction, their great circulation makes juvenils a good place to economize, if they are kept separate. The

books are classed exactly as if for adults, then a J is prefixed to show their special character. This gives J alone as the class number for juvenil fiction, and J942, for a child's history of England. These are then arranged in a parallel library by themselves, so that J942 comes between J941, juvenil history of Scotland, and J943, juvenil history of Germany.

If at any time it seems desirable to abandon the separate J library, it can be done without altering a number, by distributing the J books among the regular classes, either ignoring the J entirely, or preferably by putting all the J books by themselves at the end of each class number.

There are thus three methods: 1, to have a separate J library; 2, to have the J books by themselves at the end of each class number; 3, to have the J books in alfabetic order among other books on the same subject. In this last case the J is useful only to call attention plainly to their juvenil character.

The same marking is used for all these plans, and one can be changed into the other by simply distributing the books the other way, and telling the attendants that it has been done. Juvenil books go with adult books of the same class, unless a special J library is made containing all juvenils.

Biografy. Similarly it is recommended that the large class of individual biografy, as to the best treatment of which there is great difference of opinion, should be marked B in place of the subject number. See p. 15, Book numbers; and tables "920 Biografy."

Instead of the plan printed in the tables, biografy may be distributed as far as possible among the subjects it illustrates, leaving, of course, under B lives not bearing specially on any subject; e. g. all lives of musicians go under 780 and its subdivisions, the life of Wagner being 782. Even in this arrangement it is better to indicate that it is biografy, putting B before the class number; i. e. mark Wagner's life B782. (See also Book numbers, p. 17.)

Parallel libraries. This treatment of fiction, juvenils, and biografy illustrates the principle of parallel libraries. Its other chief application is for reference and language collections. Some libraries have a constituency not reading English, and so need a parallel library in German, or Swedish, or French, etc. This is most easily made by simply prefixing the initial of the language to the class number. The German parallel library is

made by simply putting all G's together and arranging by class numbers. This plan has proved very satisfactory in actual use.

To separate books most needed for reference, mark R before class numbers, and arrange the books together, as an R library. When the books are to go into the general collection again, a line can be drawn thru this letter. In the same way it often happens that a general private library is given on condition that it be kept together; e. g., the Phoenix library of Columbia college. This has P prefix to the class number, and thus is a parallel library by itself. An initial is better in such cases than a * or similar mark, since the initial helps the memory and is just as brief. The same plan applies, of course, if the library has an "inferno" for books not used without permits, or more distant rooms where books worth keeping but seldom called for can be arranged in a parallel storage library.

Combining language and literature. The same principle can be applied also in combining each language with its literature, if it is preferred to abolish the class, Philology, and make it simply an appendix to Literature. The reverse would hold true if a philologist wished to abolish Literature and make it an appendix to Philology; e. g. using 82p for English philology, and adding philology subdivisions, English dictionaries would become 82p3, English grammars 82p5, etc., and arrange either just before or just after English literature, 82o, 821, etc. For a better plan see below, Broken order.

2 Broken order. Another common and often desirable variation for shelf arrangement is to break the sequence of the numbers, in order to get books most used nearest the delivery desk. The strict theory is to keep the whole 1000 numbers in exact sequence; but a higher rule to be obeyed everywhere is to sacrifice any theory for a substantial gain. Practically it will seldom happen that it is not best to break the order of the classes. Often divisions are best arranged out of numeric place; e. g. 520 Astronomy may be wanted in a room accessible at night; fiction, juvenils, and biography are always wanted near the delivery desk in a public library, and in strict order are as likely to come at the most distant point. Various local reasons may make a broken order desirable. There need be no hesitation in adopting it if enough is gained, but there should be charts clearly showing where each division starts; e. g. after 430 "Preceding 830;" after 520 "In observatory." The rule is to specify where books may be found that have been entirely removed from the general library arrange-

ment. The page of 100 divisions is reprinted on cards with wide margins for just this use. Opposit each division is markt its beginning on the shelves, and it is easy to vary the order as much as necessary, tho of course the nearer the divisions run in regular order 1 to 99, the easier it is for a stranger to find his way about. Wherever variations from the printed order are made, a wood or cardboard dummy in the regular place should have markt on its side the present location of the subject removed; e. g. "491 will be found preceding 891."

This broken-order plan is best for bringing together the philology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelvd just ahead of 820, 430 ahead of 830, and so for all languages, making the general note that all 400's are shelvd just ahead of the corresponding 800's.

3 Pro and con division of topics. In many cases it is very useful to separate the books on a topic with strongly markt sides, so that either set of views and arguments may be seen by itself; e. g. 337, Protection and Free Trade. The number alone may be used for general works, giving facts, etc., and advocates and opponents may be separated by + and — for positiv and negativ, or by p and c, the initials for pro and con, words which, tho short, are too long for a circulating library to charge. In reference libraries, on cards, etc., most will prefer to write out *pro* and *con*, to distinguish the two groups. The order on the shelves is, of course, alfabetic, viz 337, 337^p, 337^c; or if + and — are used, the usual order is followd: +, —. These letters or signs should be written above or prefixt to the class number, not written 337c, 337—, etc., for the space at the end should be left free for other figures, if decided later to class more closely.

4 Unassignd numbers. The one and two figure numbers 1–99 are available for special uses without confusion with tables or index, for initial 0 is printed in the tables and index for all numbers before 100. In classification it sometimes happens that the first two figures are obvious at a glance, but time must be taken to determin the third. It is convenient to write these first figures, but if a mathematical book receives its first two figures (51), this unfinisht number is liable to be confused with the two-figure number 51. This danger may be largely avoided by writing the decimal point after a blank; e. g. 51 ., to show that a figure is omitted.

These four notes suggest the range of variations that may be made in the *Decimal classification* and illustrate its adaptability to widely different conditions. For book numbers which decide the order of material after it is groupd into its final classes, see page 17 and *Library notes* no. 11.

OTHER USES

Tho the system was devised for library catalog and shelf arrangement, 38 years' use has developpt many new applications; but the essential character of the plan has remaind unchanged from the first. Nearly every administrativ department feels directly the great economy, and in every field of literary activity this classification has been found a labor-saving tool, whose practical usefulness has exceeded the most sanguin hopes of its early friends.

Bookstores. The plan is a great convenience to both dealers and customers, when applied to the miscellaneous stock of a bookstore. Very often a much-wanted book, specially if not recently publisht, is reported "not in stock," when such an arrangement by subjects would have revald its place at once. Specialists often find on the shelves books that they would never have orderd, but are glad to buy after examination. Experience proves it a profitable thing for a dealer to arrange his books so that each person may find those in which he is interested without examin- ing the entire stock.

Scrap books. The plan has proved of great service in preserving newspaper clippings. Scrap sheets of uniform size are used, with the class number of the subject written in the upper corner of the front edge of the page, and clippings are mounted on the sheet as in a common scrap-book. When one sheet is full, another is inserted at the exact place. Thus perfect classification is kept up without blank sheets, and at the smallest outlay of money and trouble. This "L. B. scrap book" is for most persons the best form. These sheets are then arranged numerically like the subject card catalog, the sheets of each class being farther arranged, when desirable, under alfabetic subheads. Scraps thus mounted are shelvd either in manila pamflet cases or in patent binders.

Index rerums. These are best made on the standard P size (7.5 x 12.5 cm), card or slip. Long study and experience prove that the stock L200^a is best for private indexes, etc. It costs only half as much as the Br 400,^a which is largely used for public library catalogs, takes only half the room, and gives great satisfaction.

Where durability and convenience of handling are less important than the strictest economy, common heavy writing paper may be used; but most novices greatly diminish the usefulness of the card system by using ordinary machine-cut cards or slips which vary in hight so much as to make quick and accurate manipulation impossible. The extreme variation that should be tolerated is 1 millimeter or $\frac{1}{25}$ in. This will be understood by placing a 7.4 cm card between two 7.5 cm cards. The fingers make a bridge across the taller cards and the lower one is missed entirely in rapid turning. Cards must be cut by accurate gages or they will lose

^a This is a catalog number of the Library Bureau. L200 means linen ledger paper of which a square meter weighs 200 grams. Br 400 means bristol weighing 400 grams to the square meter.

half their value, and in many cases make it necessary to recopy the material at a cost tenfold greater than to have thrown away the imperfectly cut cards or slips.

The class number is written in the upper left corner, any alphabetic subject head follows at the right, and notes fill the card below. The cards are then filed in order of class numbers like the subject card catalog, the cards of each class being farther arranged, as in case of the scrap sheets, according to any alphabetic subheads. Scores of devices for convenient handling and storing of these slips and of scrap sheets and pamphlets are already manufactured. Details will be found in the full descriptive and illustrated catalog.

Another admirable form is similar to the L. B. scrap-book or shelf list ; in fact, it is simply a shelf list without the printed head and column lines. The subject number goes in the upper corner, and all notes on that subject are written on the sheet below. This book fits an ordinary shelf, has the advantage of a full letter page in sight at once, and holds over five times as much as the postal card. Of course the system can be applied to slips or sheets of any size, but there are literally hundreds of accessories and conveniences exactly adapted to these two sizes, which are used tenfold more than all others combined ; so it is folly for one to begin on another size, and lose the advantages of this uniformity. If intermediate sizes must be had, the ones most used and least objectionable are Note, 12.5, x 20 cm, and Magazine, 17.5 x 25 cm. There are repeated cases where users of some other size have finally found it profitable to change to either the Postal, 7.5 x 12.5, or to the Letter, 20 x 25 cm, even at the cost of rewriting many notes.

Note books are best in this last described form. The much poorer method is to take a bound blank book, and assign the class numbers in order, giving about the space it is thought each will require, and, when the pages so assigned are full, note at the bottom of the page where the subject is continued. This has all the objections of the old fixed location as compared with the relative, and will hardly be adopted by any person who has ever seen the simplicity and economy of the shelf-list system.

Topical indexes. The class numbers are used in indexing books read, usually by making the entries in the index rerum under proper numbers. The number takes the place of a series of words, and the results can be handled, arranged, and found much quicker because of the simple numerals.

The advantages of the system for making topical indexes of collected works, periodicals, transactions, etc. are evident. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves, as seems best in each case.

It would exceed the limits of this brief description to notice all the varied applications of the system. Enough have been mentioned to show its wide adaptability to the wants of the librarian and the student.

CLASSES

- 0 General works
- 1 Philosophy
- 2 Religion
- 3 Sociology
- 4 Philology
- 5 Natural science
- 6 Useful arts
- 7 Fine arts
- 8 Literature
- 9 History

DIVISIONS

000	General works	500	Natural science
010	Bibliography	510	Mathematics
020	Library economy	520	Astronomy
030	General cyclopedias	530	Physics
040	General collections	540	Chemistry
050	General periodicals	550	Geology
060	General societies	560	Paleontology
070	Newspapers	570	Biology
080	Special libraries. Polygraphy	580	Botany
090	Book rarities	590	Zoology
100	Philosophy	600	Useful arts
110	Metaphysics	610	Medicine
120	Special metaphysical topics	620	Engineering
130	Mind and body	630	Agriculture
140	Philosophical systems	640	Domestic economy
150	Mental faculties. Psychology	650	Communication. Commerce
160	Logic. Dialectics	660	Chemical technology
170	Ethics	670	Manufactures
180	Ancient philosophers	680	Mechanic trades
190	Modern philosophers	690	Building
200	Religion	700	Fine arts
210	Natural theology	710	Landscape gardening
220	Bible	720	Architecture
230	Doctrinal. Dogmatics. Theology	730	Sculpture
240	Devotional. Practical	740	Drawing. Decoration. Design
250	Homiletic. Pastoral. Parochial	750	Painting
260	Church. Institutions. Work	760	Engraving
270	Religious history	770	Photography
280	Christian churches and sects	780	Music
290	Ethnic. Non-Christian	790	Amusements
300	Sociology	800	Literature
310	Statistics	810	American
320	Political science	820	English
330	Political economy	830	German
340	Law	840	French
350	Administration	850	Italian
360	Associations and institutions	860	Spanish
370	Education	870	Latin
380	Commerce. Communication	880	Greek
390	Customs. Costumes. Folklore	890	Minor languages
400	Philology	900	History
410	Comparative	910	Geography and travels
420	English	920	Biography
430	German	930	Ancient history
440	French	940	Europe
450	Italian	950	Asia
460	Spanish	960	Africa
470	Latin	970	North America
480	Greek	980	South America
490	Minor languages	990	Oceanica and polar regions

General works

010 Bibliography

011 General bibliographies. Universal catalogs

011 is by Authors. If by Subjects they go in 016.

012-016 include both bibliographies and catalogs. 017-019 is limited to catalogs of general collections.

012 Of individual authors

Alfabeted by bibliografees, not by compilers; e. g. Chaucer, Dante, Ruskin, etc.

013 Of special classes of authors

e. g. Books written by Jesuits, by Roman catholics, by members of the Bavarian academy, etc., or these may go with the church, society, etc. with references here.

014 Of special forms. Anonyms, pseudonyms, etc.

015 Of special countries

Books publisht in the country. Publishers' lists, current publications. Bibliography of books publisht in England, as Lowndes or English catalog.

The history of literature, i. e. belles lettres, poetry, drama, fiction, etc. goes, of course, with those topics in 800; but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliography, and goes usually in 015, tho the literary history of some special class is 013.

016 Of special subjects

- | | |
|----|-----------------|
| .1 | philosofy |
| .2 | religion |
| .3 | sociology |
| .4 | philology |
| .5 | natural science |
| .6 | useful arts |
| .7 | fine arts |
| .8 | literature |
| .9 | history |
- Bibliography of

Library and sale catalogs

Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heading wherever it conflicts with another. 017-019 therefore includes only catalogs of general collections, limited to no one class or subject.

017 Clast catalogs. Systematic or logical

For all forms of alfabetic subject catalogs, see 019. See 016 for Bibliographies.

018 Author catalogs See 011 for Bibliographies.

A volume containing both author and subject catalogs is more useful in 017. 018 includes accession, chronologic, and any other forms (except subject and dictionary) of catalogs of collections.

019 Dictionary catalogs. Alfabetico-clast, etc.

020 Library economy

021 Scope and founding of libraries

022 Buildings See also 727, Architecture of educational buildings

023 Government and service

024 Regulations for readers

025 Administration. Departments

025 is for the librarian's part. The trustees build and furnish (022); make rules for government and service (023), and regulations for readers (024); but the administration involves questions of its own, which, however, are closely allied to topics in 021-024 and elsewhere; e. g. the librarian must know his side of binding, and be able to give proper directions and supervision, but need not know all the details of the binder's craft (686).

Administration includes Supervision; Acquisition; Utilization; Preservation; i. e. the librarian's duty to books is to Get, Use, Keep.

026 Libraries on special subjects

Histories, reports, statistics, bulletins, handbooks, circulars, and everything about the library not more required in one of the sections above; e. g. a Medical library, a Chess library, but the catalog of a Chess library is 016.7; blanks, etc. from any library go in 025, as more used in studying topics; but, if history of individual libraries is specialized, duplicates are also desirable under the library in 026-027, thus making a complete set of its publications.

027 General libraries

This includes both circulating and reference; i. e. all not limited to special subjects.

028 Reading and aids

See also 374, Self education.

029 Literary methods and labor-savers

Much in 025 and 028 belongs equally under 029 in its full meaning, but practical convenience is best served by keeping such material under those heads instead of separating a part here.

030 General cyclopedias

031 American

e. g. Appleton, International, Johnson.

032 English

e. g. Britannica, Chambers.

033 German

e. g. Brockhaus.

034 French

e. g. Larousse.

035 Italian

036 Spanish

037 Slavic

038 Scandinavian

039 Minor languages

040 General collected essays

- 041 American
- 042 English
- 043 German
- 044 French
- 045 Italian
- 046 Spanish
- 047 Slavic
- 048 Scandinavian
- 049 Minor languages

050 General periodicals, magazines

- 051 American
 - e. g. Atlantic, Century, Harper's, Scribner's.
- 052 English
 - e. g. Athenæum, Blackwood's, Contemporary.
- 053 German
- 054 French
- 055 Italian
- 056 Spanish
- 057 Slavic
- 058 Scandinavian
- 059 Minor languages

060 General societies, transactions

- 061 American
- 062 English
- 063 German
 - e. g. Academies of Berlin, Vienna, etc.
- 064 French
- 065 Italian
- 066 Spanish
- 067 Slavic
- 068 Scandinavian
- 069 Minor languages

070 General newspapers. Journalism

- 071 American
e. g. Albany argus, N. Y. tribune, Nation, Harper's weekly.
- 072 English
e. g. Times (London), Saturday review, Spectator.
- 073 German
- 074 French
- 075 Italian
- 076 Spanish
- 077 Slavic
- 078 Scandinavian
- 079 Minor languages

080 Special libraries. Polygraphy

- 081
- 082
- 083
- 084
- 085
- 086
- 087
- 088
- 089

Left blank to be used (if preferred to prefixing an initial) for general collections of books which by terms of gift or for other cause must be kept together. This must be kept distinct from 040 where the individual books are polygraphic, i. e. are bound pamphlets, essays, addresses, scrap or note books, etc., too general in scope to go under any single class. Juvenils could be put here, but are better kept in a separate class, mark J.

090 Book rarities

Books about these topics, and those chiefly valuable because of their rarity, go here.
A rare early edition of Shakspeare goes in 822 with reference from 094. 090 is mostly used for grouping references to books located elsewhere.

- 091 Manuscripts. Autographs
Photographs of mss go with subject rather than here.
For Diplomatics and Paleography, see 417, and under the special language 421, 431, etc.
- 092 Block books
- 093 Early printed books. Incunabula
- 094 Rare printing
Aldines, Elzevirs, Caxtons, etc.; privately printed books; unique books.
- 095 Rare binding
Noted binders, costly ornament, curious bindings.
- 096 Rare illustrations or materials
Illuminated. Illustrated by inserted plates. Printed on vellum, silk, bark, etc., in gold or silver letters, etc.
- 097 Ownership. Book plates. Ex libris
- 098 Prohibited. Lost. Imaginary
- 099 Other rarities. Curiosa. Minute size, etc.

Philosophy

100 Philosophy, general works

Works limited to none of the nine divisions.

- 101 Utility
- 102 Compends. Outlines
- 103 Dictionaries. Cyclopedias
- 104 Essays. Lectures. Addresses
- 105 Periodicals. Magazines. Reviews
- 106 Societies. Transactions. Reports
- 107 Education. Study and teaching
- 108 Polygraphy. Collected works. Extracts, maxims, etc.
- 109 History of philosophy

110 Metaphysics

- 111 Ontology
 - Nature of being. Substance and form.
- 112 Methodology
 - Philosophical classification of knowledge. Terminology. For book classification see 025.4.
- 113 Cosmology
- 114 Space
- 115 Time
- 116 Motion
- 117 Matter
- 118 Force
- 119 Quantity. Number

120 Other metaphysical topics

- 121 Theory of knowledge. Origin. Limits
- 122 Causation. Cause and effect
- 123 Liberty and necessity See also 159, Will.
- 124 Teleology. Final causes
- 125 Infinit and finite
- 126 Consciousness. Personality
- 127 Unconsciousness. Automata
- 128 The soul See also 218, Natural theology ; 237, Future state.
- 129 Origin of the individual soul

130 Mind and body. Anthropology

- 131 Mental physiology and hygiene
- 132 Mental derangements
- 133 Delusions. Witchcraft. Magic
- 134 Mesmerism. Animal magnetism. Clairvoyance
- 135 Sleep. Dreams. Somnambulism
- 136 Mental characteristics See also 131, Mental physiology.
- 137 Temperaments
- 138 Physiognomy
- 139 Phrenology. Mental photographs, etc.

140 Philosophic systems

General discussion of each system ; do not attempt to label each writer as an exponent of some system. Collected philosophic works of individual authors are classed in the sections, 180-199 ; class individual work according to subject.

- 141 Idealism. Transcendentalism
- 142 Critical philosophy
- 143 Intuitionism See also 156, Intuitiv faculty ; 171, Ethical theories.
- 144 Empiricism
- 145 Sensationalism
- 146 Materialism. Positivism
- 147 Pantheism. Monism See also 212, Natural theology.
- 148 Eclecticism
- 149 Other philosophic systems
 See also 211, Rationalism, Scepticism ; 214, Fatalism.

150 Mental faculties. Psychology

For mind in animals, see 591.

- 151 Intellect. Capacity for knowing
- 152 Sense. Sense perceptions Passiv or receptiv faculty.
- 153 Understanding Activ or thinking faculty.
- 154 Memory. Reproductiv power
- 155 Imagination. Creativ power
- 156 Intuitiv faculty. Reason
 Reasoning, the act of deriving conclusions from premises, 153.
- 157 Sensibility. Emotions. Affections
- 158 Instincts. Appetites
- 159 Will

160 **Logio. Dialectics**

See also 153, Reasoning power. For Logic of chance, see 519, Probabilities.

161 Inductiv

162 Deductiv

163 Assent. Faith See also 234, Doctrin of salvation.

164 Symbolic. Algebraic Logical machines.

Logical topics

165 Sources of error. Fallacies

166 Syllogism. Enthymeme

167 Hypotheses

168 Argument and persuasion

169 Analogy. Correspondence See also 219, Natural theology.

170 **Ethics, theoretic and applied**

Many topics in applied ethics occur also in law, specially in 343, Criminal law. See also 377, Ethical education.

171 Theories. Philosophy of ethics

172 State ethics

173 Family ethics

174 Professional and business ethics

175 Ethics of amusements For Amusements, see 790.

176 Sexual ethics

177 Social ethics. Caste

178 Temperance. Stimulants and narcotics

See also 613, Hygiene; 331, Laboring classes.

179 Other ethical topics.

180 Ancient philosophers

Sections 180-199 are for the history of philosophy in special countries and for the discussion of the philosophic systems of individual authors and for their works not clearly belonging elsewhere. Mill's *Logic* is 160 not 192, and Hegel's *Philosophy of history* is 901 not 193, but their complete philosophic works belong here. Collected lives of philosophers are class 927, and individual lives are placed in the alphabetic series of biography.

- 181 Oriental philosophers
- 182 Early Greek philosophers
- 183 Sophistic and Socratic philosophers
- 184 Platonic. Older Academy
- 185 Aristotelian. Peripatetic. Lyceum
- 186 Pyrrhonist. New Platonist
- 187 Epicurean. Epicurus. Lucretius
- 188 Stoic
- 189 Early Christian and medieval philosophers

190 Modern philosophers

See notes under 140 and 180.

- 191 American philosophers
- 192 British philosophers
- 193 German philosophers
- 194 French philosophers
- 195 Italian philosophers
- 196 Spanish philosophers
- 197 Slavic philosophers
- 198 Scandinavian philosophers
- 199 Other modern philosophers

Religion

200 Religion. General works

- 201 Philosophy. Theories
- 202 Compendis. Outlines
- 203 Dictionaries. Cyclopedias
- 204 Essays. Lectures. Addresses See 252, Sermons.
- 205 Periodicals. Magazines. Reviews
- 206 Societies. Transactions. Reports
Bible, Tract, etc. societies; history, reports, etc., but their publications go of course with subject.
- 207 Education. Theological seminaries. Training schools See also 377, Religious and secular education.
- 208 Polygraphy. Collected works. Extracts, maxims, etc.
Many collections go under a more specific head; e. g. 240.
- 209 History of religion

210 Natural theology

- 211 Deism and atheism
Scepticism. Infidelity. Rationalism, etc.
See 239, Apologetics; 231, God; 273, Heresy.
- 212 Pantheism. Theosophy See 147, Pantheistic philosophy; 129, Origin of soul.
- 213 Creation. See 113, Cosmology. Evolution See 575, Science.
- 214 Providence. See 231, Christian doctrin of God. Theodicy. Fatalism See 231, for Christian view.
- 215 Religion and science See 239, Apologetics.
- 216 Evil. Depravity See 149, Pessimism; 233, Doctrin of man.
- 217 Prayer. Prayer gage See 264, Public worship; 248, Personal religion.
- 218 Future life. Immortality. Eternity
See 237, Future state; 128, The soul.
- 219 Analogies. Correspondences See also 169, Logic.

220 Bible. General works

For similar works limited to Old or New Testament, or individual books, see specific head below.

- .1 Canon. Inspiration. Profecy
- .2 Concordances. Analyses
- .3 Dictionaries. Cyclopedias
- .4 Original texts and early versions. Codices
- .5 Versions of Bible. Polyglots
These are translations from the original Hebrew and Greek. Translations from other early texts, e. g. an English translation of the Syriac, go in 220.4.

- 220.6 Hermeneutics. Exegesis. Symbolism. Typology
- .7 Commentaries on whole Bible, and annotated editions
For notes, etc., on parts of the Bible, see the most specific head in 221-229.
- .8 Special topics e. g. Biblical astronomy, botany, etc.
- .9 Biblical geography and history
- 221 Old Testament. Texts. Introductions, etc.
- 222 Historical books. Genesis to Esther
- 223 Poetic books. Job to Song of Solomon
- 224 Profetic books. Isaiah to Malachi
- 225 New Testament. Texts, introductions, etc.
- 226 Gospels and Acts
- 227 Epistles
- 228 Apocalypse
- 229 Apocrypha

230 Doctrinal. Dogmatics. Theology

- 231 God. Unity. Trinity
- 232 Christology
- 233 Man
- 234 Salvation. Soteriology
- 235 Angels. Devils. Satan
- 236 Eschatology. Last things
- 237 Future state See 218, Natural theology.
- 238 Creeds. Confessions. Covenants. Catechisms
- 239 Apologetics. Evidences of Christianity

240 Devotional. Practical

- 241 Didactic For Catechisms, see 238.
- 242 Meditativ. Contemplativ See 248, Personal religion.
- 243 Hortatory. Evangelistic
- 244 Miscellany. Religious novels, Sunday-school books, allegories, etc.
But class Bunyan in fiction, because of his literary prominence.
- 245 Hymnology. Religious poetry
See 223, Psalms; 264, Public worship.
- 246 Ecclesiology. Symbolism. Religious art
246-247 cover religious bearings. For art side see 700.
- 247 Sacred furniture. Vestments. Vessels. Ornaments, etc.
- 248 Personal religion. Asceticism See also 273, Heresies.
- 249 Family devotions See 264, Public worship.

250 Homiletic. Pastoral. Parochial

- 251 Homiletics. Preaching See 264, Public worship.
- 252 Sermons
Sermons on specific topics are more useful, like other pamphlets, clast with the topics, e. g. a sermon on family devotions in 249, not 252; on strikes in 331.
- 253 Pastoral visitations, evangelistic
- 254 Clerical support. Celibacy
See also 176, Sexual ethics; 248, Asceticism.
- 255 Brotherhoods. Sisterhoods
In the parish. For Monastic orders, see 271.
- 256 Societies for parish work. Gilds. Sodalities
Local societies. Discussion of desirability of such work. For general societies, see 206 and 267.
- 257 Parochial schools. Libraries, etc.
See 377, Religious and secular education; 027, Libraries.
- 258 Parish care of sick, fallen, etc.
See also 176, Sexual ethics.
- 259 Other ministrations and work

260 Church. Institutions and work

- 261 The church Its influence on morals, civilization, etc.
- 262 Ecclesiastical polity
- 263 Sabbath. Lord's day. Sunday
- 264 Public worship. Divine service. Ritual
See also 246, Ecclesiology; 247, Sacred furniture.
- 265 Sacraments. Ordinances
- 266 Missions. Home and foreign
Missions in special countries or places, including those of all churches, go under the geographically divided Religious history, 274-279, with references under 266.
- 267 Associations. Y. M. C. A., etc.
- 268 Sunday schools
- 269 Revivals. Retreats. Parish missions

270 Religious history

- 271 Monastic orders
See also 255, Parish brotherhoods; 377, Religious and secular education.
- 272 Persecutions
See also special sects, 280; and history of special countries, 940-999.
- 273 Heresies For the history of special docttrins, see 230-239, Doctrinal theology.
- 274 General religious history of Europe
 - .1 Scotland. Ireland
 - .2 England. Wales
 - .3 Germany. Austria
 - .4 France
 - .5 Italy
 - .6 Spain. Portugal
 - .7 Russia
 - .8 Norway, Sweden and Denmark
 - .9 Minor European countries

- 275 General religious history of Asia
- .1 China
 - .2 Japan
 - .3 Arabia
 - .4 India
 - .5 Persia
 - .6 Turkey in Asia
 - .7 Siberia
 - .8 Afghanistan. Turkestan. Baluchistan
 - .9 Farther India
- 276 General religious history of Africa
- .1 North Africa
 - .2 Egypt
 - .3 Abyssinia
 - .4 Morocco
 - .5 Algeria
 - .6 North central Africa
 - .7 South central Africa
 - .8 South Africa
 - .9 Madagascar. Mauritius
- 277 General religious history of North America
- .1 Canada. British America
 - .2 Mexico. Central America
 - .3 United States
 - .4 Northeastern or North Atlantic states, New England
 - .5 Southeastern or South Atlantic states
 - .6 South central or Gulf states
 - .7 North central or Lake states
 - .8 Western or Mountain states
 - .9 Pacific states
- For the exact states covered by these general designations, see 974-979.
- 278 General religious history of South America
- .1 Brazil
 - .2 Argentine Republic. Patagonia
 - .3 Chili
 - .4 Bolivia
 - .5 Peru
 - .6 U. S. of Colombia. New Granada. Ecuador
 - .7 Venezuela
 - .8 Guiana
 - .9 Paraguay. Uruguay

279 General religious history of Oceanica. Polar regions

- .1 **Malaysia**
- .2 **Sunda**
- .3 **Australasia**
- .4 **Australia**
- .5 **New Guinea**
- .6 **Polynesia**
- .7 **Isolated islands**
- .8 **Arctic regions**
- .9 **Antarctic regions**

General religious history of

280 Christian churches and sects

See also 270, Religious history.

- 281 Primitiv and oriental churches
- 282 Western or Roman catholic church
- 283 Anglican and American P. E. church
- 284 Continental protestant sects. Protestantism
- 285 Presbyterian. Reformd. Congregational
- 286 Baptist
- 287 Methodist
- 288 Unitarian See also 273, Heresies.
- 289 Minor Christian sects

290 Ethnic. Non-Christian

- 291 Comparativ and general mythology
- 292 Greek and Roman mythology
- 293 Teutonic and northern mythology
- 294 Brahmanism. Buddhism For other Indic religions, see 299.
See also 591, Sanskrit literature; 177, Social ethics, Caste.
- 295 Parseeism. Zend Avesta For other Iranic religions, see 299
See also 891, Zend literature.
- 296 Judaism For other Semitic religions, see 299.
- 297 Mohammedanism
- 298 Mormonism See also 173, Family ethics.
- 299 Minor non-Christian religions

Sociology

300 Sociology. General works

301-309 all have Sociology in general as their subject, but it is treated in these various forms. A periodical on education goes in 370, not 305, which is only for periodicals on sociology in general. In sociology, most works in these forms are limited to one division; e. g. to political economy, education, law, etc.

301 Philosophy. Theories

See 901, Philosophy of history.

302 Compendis. Outlines

303 Dictionaries. Cyclopedias

304 Essays. Lectures. Addresses

305 Periodicals. Magazines. Reviews

306 Societies. Transactions. Reports

307 Education. Study and teaching

See also 370.

308 Polygraphy. Collected works. Extracts, etc.

Put here collected works of statesmen; e. g. works of Adams, Jefferson, etc.

309 History of social science

310 Statistics

311 Theory, methods. Science of statistics

312 Population. Progress of. Vital statistics. Births. Deaths. Mortality. Longevity

See also 614, Public health.

313 Special topics

The statistics of any special matter are put with the subject, e. g. of Domestic animals in 636, of Shorthand in 653, of French novels in 843, of Theaters in 792, etc. The statistics of New York city would be 317, but the statistics of Medicine in New York would be put with 610, Medicine, i. e. the topic outranks the locality.

314 Europe

315 Asia

316 Africa

317 North America

318 South America

319 Oceanica

Statistics of

320 Political science

321 Form of state

This is for discussion of form of state, what should be ; for what is, see 342, Constitutional law and 353-354, Administration.

322 Church and state See also 172, State ethics ; 261, The church.

323 Internal or domestic relations

Freespeech, Liberty of the press; for Morals of the press, see 179; also, 070, Newspapers.

324 Suffrage

325 Colonies and immigration

326 Slavery See also 973.7, Civil war.

327 Foreign relations

328 Legislativ bodies and annals

329 Political parties. Party conventions

330 Political economy

331 Capital. Labor and wages

332 Banks. Money. Credit. Interest

333 Land. Ownership, rights and rent

See also 338, Production; and 630, Agriculture.

334 Cooperation

335 Socialism and communism

336 Finance

337 Protection and free trade

338 Production. Manufacture. Prices

339 Pauperism. Consumption of wealth

See also 362, Asylums ; 331, Labor and wages.

340 Law Most periodicals belong in Private law, 347.**Public law**

341 International law

342 Constitutional law and history For Administrativ law, see 350.

343 Criminal law

344 Martial law

Private law

345 U. S. statutes and cases

346 British statutes and cases

Includes all reports in English language except U. S. reports.

347 Treatises. American and English private law

Put law of special topics with the subject; e. g. Insurance law, 368.

348 Canon law

349 Foreign law

- 350 Administration** Including Military science.
- 351 Administration of central government
 - 352 Local government. Town. City. County
See also 379, Public schools; 020, Libraries.
 - 353 United States and state government
See also 342, Constitutional law and history.
 - 354 Organization of central government. Foreign states
See also 342, Constitutional law and history.
 - 355 Army. Military science See also 623, Military engineering.
Limited to Military science, tactics, etc. For War department of U. S. or history of regiments, see 353.
 - 356 Infantry
 - 357 Cavalry
 - 358 Artillery, engineers, etc.
 - 359 Naval science See 623, Naval engineering.

360 Associations and institutions

This covers what is best known as "Charities and corrections," and general works on this topic go in 360.

- 361 Charitable
- 362 Hospitals, asylums, and allied societies
For inebriate asylums, see 178, Temperance.
- 363 Political Tammany, Primrose leag, Ku Klux, etc.
- 364 Reformatory Schools. Discharged convicts. Criminal classes.
- 365 Prisons. Disciplin
- 366 Secret societies See also 371, College secret societies.
- 367 Social clubs
- 368 Insurance See also 334, Cooperation.
- 369 Other Cincinnati.

370 Education

- 371 Teachers, methods, and disciplin
- 372 Elementary education. Primary schools
- 373 Secondary. Academic. Preparatory
The discussions of theories, methods, etc. are clast regardless of the source of support; but schools clast in 372, 373, 376, 377 and 378 are all private or endowd except parts of primary, schools for women, and colleges, which, even if supported by public funds, are preferably clast in 372, 376 and 378. All other "public" schools, i. e. paid for from the public treasury, are groupt under 379. Besides schools, such topics as "American students in Europe" go naturally in 373 or, if the topic be "European universities," in 378. Peabody and Slater funds go in 373.
- 374 Self-education and culture. Extension teaching
- 375 Curriculum
- 376 Education of women See also 396, Woman's position and treatment.
- 377 Religious, ethical, and secular education
- 378 Colleges and universities With power of conferring degrees.
- 379 Public schools. State education

380 Commerce, communication

The technical side of these questions goes mostly in 650, Useful arts. Here belong discussions of social and political relations; e. g. government control of railroads, telegraphs, etc.

- 381 Domestic trade
- 382 Foreign trade. Consular reports
- 383 Post-office See also 353, U. S. administration.
- 384 Telegraf. Cable. Telefone
See also 654, Telegraphic instruments and construction
- 385 Railroad and express See also 656, Transportation.
- 386 Canal and highway transportation ,,
- 387 River and ocean transportation ,,
- 388 City transit See also 625, Railroad and road engineering.
- 389 Weights and measures. Metrology See also 658, Business manuals and methods.

390 Customs. Costumes. Popular life

These heads are for discussions by topics. Customs, etc. of any special country go in 913-919. Books on a special topic in a special country go here, as the grouping by topics is the more important; e. g. Marriage in Japan is 392, but Japanese customs, 915.2. For Customs of primitiv man, see 571.

- 391 Costume and care of person See 646, Clothing; 613, Hygiene.
- 392 Birth, home, and sex customs
- 393 Treatment of the dead See 614, Public health.
- 394 Public and social customs
- 395 Etiquet
- 396 Woman's position and treatment
For Costumes, see 391; Biografy, 920.7.
If a special library about women is wisht, 396 is the best place for it. Suffrage, education, and employment can then be put here with references from 324, 376, 331, etc.; but it would be unwise to bring everything about women here, e. g. to remove 618, Diseases of women, from the rest of medicin. Books on woman in general go in 396.
- 397 Gipsies. Nomads. Outcast races
People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which has no place in the linguistic groups of 400, as the Gipsy people have no place in the geografic divisions of history.
- 398 Folk-lore. Proverbs, etc. See also 291-293, Mythology.
This section is for material needed in studying folk-lore. Mere stories for children, unless having a value to students of folk-lore, go in fiction, or in J, if there be a juvenil collection.
- 399 Customs of war
Weapons War dances. Treatment of captivs. Scalping. Mutilation. Burning. Cannibalism.

Philology

400 Philology. General works

In Philology the general works put under 400-419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practice are most convenient here. Under 439, 479, and 489 are placed books limited to the Teutonic, Romance or Hellenic groups, and under 491 are placed only such general works as are specifically limited to the Indo-European group.

- 401 Philosophy. Origin of language
- 402 Compends. Outlines
- 403 Dictionaries. Cyclopedias
- 404 Essays. Lectures. Addresses
- 405 Periodicals. Magazines. Reviews
- 406 Societies. Transactions. Reports
- 407 Education. Schools of languages
- 408 Polygraphy. Collected works. Extracts, etc.
- 409 History of language

410 Comparativ

410-419 includes *comparativ* works in *general* and also those on the Indo-European group in general, but general *and comparativ* works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language.

- 411 Orthography. Orthoepy. Alphabets
- 412 Etymology. Derivation
- 413 Dictionaries. Lexicography
- 414 Phonology. Visible speech
- 415 Grammar. Morphology. Syntax
- 416 Prosody
- 417 Inscriptions. Paleography

Rare early mss are put in 091; inscriptions of an individual language are classed with its orthography; Latin inscriptions, 471; Greek inscriptions, 481, etc.

- 418 Texts
- 419 Hieroglyphics See also 493, Egyptian hieroglyphics.

420 English philology

421 Orthograpy

See also this head treated in general grammars placed under 425.

422 Etymology. Derivation

422 is limited to derivation. For inflection, also called etymology, see 425.

423 Dictionaries. Idioms

Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443; a French-Latin dictionary with Latin, 473. If in several languages, put with 413, or with least known. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i. e. that by which it is alphabetized. This gives under *each* language, regardless of its familiarity, *all* dictionaries for translating *from* it, but none for translating *into* it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library, the first plan, with only English dictionaries in 423, and both *in* and *out* dictionaries together under little known tongues is more convenient. References in either case show what may be found in the other place.

424 Synonyms. Homonyms

425 Grammar

425 includes general works, covering also orthograpy and prosody.

426 Prosody

See also the head prosody, in general grammars, 425.

427 Dialects. Early forms. Slang

428 School books. Texts for learning the language

Including only books for *learning* the language, with grammatic or philologic notes, etc. For other works see the literature of the language, 820.

429 Anglo-Saxon

430 German

431 Orthograpy

432 Etymology. Derivation

433 Dictionaries. Idioms

434 Synonyms. Homonyms

435 Grammar

436 Prosody

437 Dialects. Early forms. Slang

438 School books. Texts for learning the language

439 Minor Teutonic Including general works on Teutonic group.

440 French

441 Orthograpy

442 Etymology. Derivation

443 Dictionaries. Idioms

444 Synonyms. Homonyms

445 Grammar

(French)

- 446 Prosody
- 447 Dialects. Early forms. Slang
- 448 School books. Texts for learning the language
- 449 **Provençal** Old French, as the earliest form of the language, is 447.

450 Italian

- 451 Orthograpy
- 452 Etymology. Derivation
- 453 Dictionaries. Idioms
- 454 Synonyms. Homonyms
- 455 Grammar
- 456 Prosody
- 457 Dialects. Early forms. Slang
- 458 School books. Texts for learning the language
- 459 **Wallachian**

460 Spanish

- 461 Orthograpy
- 462 Etymology. Derivation
- 463 Dictionaries. Idioms
- 464 Synonyms. Homonyms
- 465 Grammar
- 466 Prosody
- 467 Dialects. Early forms. Slang
- 468 School books. Texts for learning the language
- 469 **Portuguese**

470 Latin

- 471 Orthograpy
- 472 Etymology. Derivation
- 473 Dictionaries. Idioms
- 474 Synonyms. Homonyms
- 475 Grammar
- 476 Prosody
- 477 Dialects. Early forms. Slang
- 478 School books. Texts for learning the language
- 479 **Minor Italic. Medieval Latin**
Including general works on Romance group.

480 Greek

- 481 Orthografy
- 482 Etymology. Derivation
- 483 Dictionaries, Idioms
- 484 Synonyms. Homonyms
- 485 Grammar
- 486 Prosody
- 487 Dialects. Early forms. Slang
- 488 School books. Texts for learning the language
- 489 **Minor Hellenic. Modern Greek**

Including general works on Hellenic group.

Works on Latin and Greek together, unless very clearly most useful with Latin, go with Greek, which here as elsewhere is made to include general works on the ancient classics.

490 Minor languages

- 491 **Minor Indo-European**

(Besides Teutonic, 420-439; Italic, 440-479; and Hellenic, 480-489.) This head, 491, includes general works on the Indo-European tongues, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400-419 is really Indo-European; but see also 410.

- 492 Semitic
- 493 Hamitic
- See 419, Hieroglyphics.
- 494 Scythian. Ural-Altaic. Turanian
- Dravidian. Tamil. Finnish. Turkish.
- 495 Eastern Asiatic. Chinese
- 496 African
- Excluding 493 Hamitic, 492 Semitic, etc. included in families above.
- 497 North American
- 498 South American
- 499 Malay-Polynesian and other

The Gipsy language is not assigned to any group, but is placed for convenience with 397, Gipsies.

Natural science

500 Science. General works

501-509 all have *Science in general* as their subject, but it is treated in these various forms. A periodical on *chemistry* goes in 540, not in 505, which is only for periodicals on science in general.

- 501 Philosophy. Theories. Utility
- 502 Compends. Outlines. Ancient and medieval science
- 503 Dictionaries. Cyclopedias
- 504 Essays. Lectures. Addresses
- 505 Periodicals. Magazines. Reviews
- 506 Societies. Transactions. Reports
- 507 Education. Teaching and studying. Museums
See also 370.
- 508 Polygraphy. Collected works. Extracts, etc.
 - .3 General scientific travels and surveys
 - .4 Scientific travel in Europe
 - .5 Asia
 - .6 Africa
 - .7 North America
 - .8 South America
 - .9 Oceanica
- 509 History of science

510 Mathematics

- 511 Arithmetic See also 372, Elementary education
- 512 Algebra
- 513 Geometry
Descriptive geometry is 515. See also Mathematical drawing, 744.
- 514 Trigonometry
- 515 Descriptive geometry and projections
See also 744, Mathematical drawing.
- 516 Analytic geometry
- 517 Calculus
- 519 Probabilities

520 Astronomy

521 Theoretical astronomy

Mathematical investigation of celestial motions, specially of the solar system. The motions of individual bodies are classed in 523.

522 Practical and spherical

523 Descriptive astronomy

524 Maps, observations and tables

Series of observatory publications may be kept together under 524, or under 522 with the history and reports of the observatory. Special maps or observations; e. g. on sun or moon are better placed under 523. This number provides a place in case it is wisht to keep *all* maps and observations together

525 Earth.

526 Geodesy and surveying

527 Navigation

528 Ephemerides

529 Chronology

530 Physics

531 Mechanics

532 Liquids. Hydrostatics. Hydraulics

533 Gases. Pneumatics

534 Sound. Acoustics

535 Light. Optics

536 Heat

537 Electricity

538 Magnetism

For "Animal magnetism," Mesmerism, etc. see 134.

539 Molecular physics

540 Chemistry

541 Theoretic chemistry

542 Practical and experimental chemistry

543 Analysis

Of special materials. See also 614.3, Adulterations.

544 Qualitative analysis

545 Quantitative analysis

546 Inorganic chemistry

547 Organic chemistry

548 Crystallography

549 Mineralogy

550 Geology

551 Physical and dynamic geology

Including physical geography. For cosmic geography, see 523.

552 Lithology. Petrography. Petrology

553 Economic geology See also Mining engineering.

While the history of all the other products goes here, the history of the metals is more useful in 669, Metallurgy.

554 Geology of Europe

- | | |
|----|----------------------------|
| .1 | Scotland. Ireland |
| .2 | England. Wales |
| .3 | Germany. Austria |
| .4 | France |
| .5 | Italy |
| .6 | Spain. Portugal |
| .7 | Russia |
| .8 | Norway, Sweden and Denmark |
| .9 | Minor European countries |

555 Geology of Asia

- | | |
|----|-------------------------------------|
| .1 | China |
| .2 | Japan |
| .3 | Arabia |
| .4 | India |
| .5 | Persia |
| .6 | Turkey in Asia |
| .7 | Siberia |
| .8 | Afghanistan. Turkestan. Baluchistan |
| .9 | Farther India |

556 Geology of Africa

- | | |
|----|-----------------------|
| .1 | North Africa |
| .2 | Egypt |
| .3 | Abyssinia |
| .4 | Morocco |
| .5 | Algeria |
| .6 | North central Africa |
| .7 | South " " |
| .8 | " Africa |
| .9 | Madagascar. Mauritius |

.1	Canada	
.2	Mexico. Central America. West Indies	
.3	United States	
.4	Northeastern or North Atlantic states.	New
	England	
.5	Southeastern or South Atlantic states	
.6	South central or Gulf states	
.7	North central or Lake states	
.8	Western or Mountain states	
.9	Pacific states	

558 Geology of South America

- | | | | |
|---|---------------------|-------------|---------|
| 1 | Brazil | | |
| 2 | Argentine Republic. | Patagonia | |
| 3 | Chili | | |
| 4 | Bolivia | | |
| 5 | Peru | | |
| 6 | U. S. of Colombia. | New Granada | Ecuador |
| 7 | Venezuela | | |
| 8 | Guiana | | |
| 9 | Paraguay. | Uruguay | |

.1	Malaysia
.2	Sunda
.3	Australasia
.4	Australia
.5	New Guinea
.6	Polynesia
.7	Isolated islands
.8	Arctic regions
.9	Antarctic regions

561 Plants
562 Invertebrates
563 Protozoa. Radiates
564 Mollusks
565 Articulates
566 Vertebrates
567 Fishes. Batrachia
568 Reptils. Birds
569 Mammals

570 Biology

- 571 Prehistoric archeology
For customs, see 390. For archeology of special countries, see 923.
- 572 Ethnology. Anthropology
See also 136, Mental race characteristics.
- 573 Natural history of man
- 574 Homologies
- 575 Evolution See also 213, Creation; 215, Religion and Science; 239, Apologetics.
- 576 Origin and beginnings of life
- 577 Properties of living matter
- 578 Microscopy See also 535, Optics.
- 579 Collectors' manuals

580 Botany

- 581 Physiologic and structural botany
- .9 Geographic
This is to be used only for general works and cross references. The "Flora of North America" is put 581.9; but "North American cryptogams" is class 586 with a reference from 581.9, but No. Am. phanerogamia goes with 581.9 because it so nearly covers the subject.
General works covering both Phanerogamia and Cryptogamia are put under 580, as books on Vertebrates and Invertebrates are put under 590.
- 582 Phanerogamia See also Trees 715.
- 583 Dicotyledonae
- 584 Monocotyledonae
- 585 Gymnospermae
- 586 Cryptogamia
- 587 Pteridofyta
- 588 Bryofyta
- 589 Thallofyta

590 Zoology

- 591 Physiologic zoology
- 592 Invertebrates
- 593 Protozoans. Radiates
- 594 Mollusks
- 595 Articulates
- 596 Vertebrates
- 597 Fishes. Pisces
- 598 Birds. Reptils
- .1 Reptils
- 599 Mammals. Mammalia

Useful arts

600 Useful arts. General works

- 601 Philosophy. Theories, etc.
- 602 Compends. Outlines
- 603 Dictionaries. Cyclopedias
- 604 Essays. Lectures. Addresses
- 605 Periodicals. Magazines. Reviews
- 606 Societies. Transactions. Reports. Fairs. Exhibitions
Special exhibitions go with their topics. This is general only.
- 607 Education. Schools of technology
- 608 Patents. Inventions
- 609 History of useful arts
For its history, see each special department.

610 Medico

- 611 Anatomy. Histology
For Malformations see 617, Surgery. See also 591, Physiologic zoology.
- 612 Physiology
For vital phenomena in general, see 577, Properties of living matter. See also 591, Physiology of animals.
- 613 Personal hygiene
Care of health; Prophylaxis; Individual health; Laws of health.
- .7 **Gymnastics and athletics. Recreation and sleep**
- 614 **Public health**
Public hygiene. Public sanitation. State medicin. Preventiv medicin. See also 628, Sanitary engineering; 352, Local administration.
- .3 **Adulterations. Inspection of articles liable to affect public health.** Public analysts. State laboratories. For chemical analysis see 543.
- .8 **Protection of human life from accidents, casualties, etc.**
- 615 Materia medica and therapeutics
- 616 Pathology. Diseases. Treatment
- 617 Surgery
- 618 Diseases of women and children. Obstetrics
- 619 Comparativ medicin. Veterinary

620 Engineering

- 621 Mechanical engineering
 - .1 Steam engineering
 - .3 Electric engineering
 - .4 Air and gas engines
 - Internal combustion engins.
- 622 Mining engineering
- 623 Military and naval engineering. Shipbuilding
 - For Military and naval science, Maneuvers, Strategy and tactics, see 355 to 359.
- 624 Bridges and roofs
- 625 Railroad and road engineering
 - See also 624, Bridges.
- 626 Canal engineering
- 627 River, harbor and general hydraulic engineering
- 628 Sanitary engineering. Waterworks
- 629 Other branches of engineering

630 Agriculture

- 631 Soil. Fertilizers. Drainage
- 632 Pests. Hindrances. Blights. Insects
- 633 Grains. Grasses. Fibers. Tea. Tobacco, etc.
- 634 Fruits. Orchards. Vineyards. Forestry
 - See also 715, Landscape gardening.
- 635 Kitchen garden
 - See 716, for Flower gardens.
- 636 Domestic animals
 - See also 619, Veterinary medicine; 599, Zoology.
- 637 Dairy. Milk. Butter. Cheese
- 638 Bees. Silkworms
- 639 Fishing. Trapping

640 Domestic economy.

- 641 Food. Cookery. Gastronomy
 - See also 613, Hygiene; 663, Beverages.
- 642 Serving. Table. Entertaining
 - See also 394, Customs.
- 643 Shelter: house, home
- 644 Heat. Light. Ventilation
 - See also 697, Heating; 665, Gas, candles, lamps; 621.3, Electric engineering.
- 645 Furniture. Carpets. Upholstery. Decoration
- 646 Clothing. Toilet. Cosmetics
 - See also 613; Hygiene; 391, Costume and care of person.
- 647 Household organization and administration
 - Expenses. Servants: training, duties, wages. Hotels, clubs, flats, etc.
- 648 Sanitary precautions: laundry, cleaning
- 649 Nursery. Children. Sickroom

650 Communication. Commerce

- 651 Office equipment and methods
- 652 Writing. Materials, typewriters, cipher
- 653 Abbreviations. Shorthand
- 654 Telegraf. Cables. Signals For codes see 652.
- 655 Printing. Publishing. Copyright
- 656 Transportation. Railroading, etc.
- 657 Bookkeeping. Accounts
- 658 Business manuals. Methods. Tables
- 659 Advertising and other topics

660 Chemical technology

- 661 Chemicals
- 662 Pyrotechnics. Explosivs. Matches, etc.
- 663 Beverages See also 178, Temperance; 614.3, Adulterations.
- 664 Foods
For Adulterations see 614.3, Public health. See also 641, Cookery, and 642, Table serving.
- 665 Oils. Gases. Candles. Lamps
See also 644.
- 666 Ceramics. Glass, etc.
- 667 Bleaching, dyeing, etc.
- 668 Other organic chemical industries

669 Metallurgy and assaying

History of metals goes here, not in 553, 622 nor 671.

670 Manufactures

Specific topics go where of most interest. These heads are for the *general* subject of metal, wood, etc., manufactures, and for such specific manufactures as are not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e. g., a steam engine is certainly made of metal, but its manufacture should go under 621.1, not 672. The character of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churns with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library will incline to the special subject, as a more minute classification is thus obtained, and references under 670 answer inquiries for all the library has on the subject of brass or rubber or paper manufactures. Whether grouped by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses are various the general head is better; e. g. bells are for scores of distinct uses, but their manufacture is a unit; but all churns are for the dairy.

- 671 Articles made of metals
- 672 Of iron and steel; stoves, cutlery, etc.
- 673 Of brass and bronze; bells, etc. See also 739.

(Manufactures)

- 674 Lumber and articles made of wood
- 675 Leather „ „ „ „ leather
- 676 Paper „ „ „ „ paper
- 677 Cotton, wool, silk, linen, etc.
- 678 Rubber and articles made of rubber
- 679 Celluloid and other

680 Mechanic trades. Amateur manuals

- 681 Watch and instrumentmaking
- 682 Blacksmithing
- 683 Lock and gunmaking
- 684 Carriage and cabinetmaking
- 685 Saddlery and shoemaking. Trunks
- 686 Bookbinding
- 687 Clothesmaking. Hats
- 688
- 689 Other trades

690 Building For Architectural construction, see 721.

- 691 Materials. Processes. Preservatives
See also 620, Engineering.
- 692 Plans. Specifications, etc.
- 693 Masonry. Plastering. Fireproofing
- 694 Carpentry. Joinery. Stairbuilding
- 695 Roofing. Slating. Tiling See 721, Roof constructions.
- 696 Plumbing. Gas and steam fitting, etc.
- 697 Heating and ventilation
See Sanitary engineering, 628; Domestic economy, 644.
- 698 Painting. Glazing. Paperhanging
- 699 Carbuilding

Fine arts

700 Fine arts. General works

- 701 Philosophy. Theories. Utility. Esthetics
- 702 Compends. Outlines
- 703 Dictionaries. Cyclopedias
- 704 Essays. Lectures. Addresses
- 705 Periodicals. Magazines. Reviews
- 706 Societies. Transactions. Reports
- 707 Education. Study and teaching
- 708 Art galleries and museums
- 709 History of art in general

710 Landscape gardening

- 711 Public parks
- 712 Private grounds. Lawns
- 713 Walks. Drives
- 714 Water. Fountains. Lakes
- 715 Trees. Hedges. Shrubs
See also 634, Forestry ; 582, Botany.
- 716 Plants. Flowers
- 717 Arbors. Seats. Outlooks
- 718 Monuments. Mausoleums
- 719 Cemeteries * See also 393, Treatment of the dead; 614, Public health.

720 Architecture

- 721 Architectural construction
- 722 Ancient and oriental architecture (Pagan)
See also 571. Prehistoric archeology.
- 723 Medieval. (Christian. Mohammedan)
- 724 Modern
- 725 Public buildings
- 726 Ecclesiastic and religious
- 727 Educational and scientific
- 728 Residences
- 729 Architectural design and decoration

730 Sculpture

- 731 Materials and methods
- 732 Ancient
 - 733 Greek and Roman
 - 734 Medieval
 - 735 Modern
- 736 Carving. Seals. Dies. Gems. Cameos
- 737 Numismatics. Coins. Medals
- 738 Pottery. Porcelain
- 739 Bronzes. Brasses. Bric-a-brac

740 Drawing. Decoration. Design

- 741 Free-hand. Crayon. Sketching from nature.
 - Caricatures. Cartoons
 - Collections on any subject go with that subject with reference from 741.
- 742 Perspectiv See also 515, Descriptiv geometry.
- 743 Art anatomy. Life school
- 744 Mathematical and scientific drawing See also 515, Descriptiv geometry.
- 745 Ornamental design. Woven fabrics. Carpets.
 - Wall paper, etc.
- 746 Art needlework. Fancy work
- 747 Interior decoration. Distemper. Fresco. Poly-chrome
- 748 Staind and iridescent glass For Leading, see 698.
- 749 Artistic furniture. Fireplaces. Frames, etc.

750 Painting

- 751 Materials and methods
- 752 Color See 535, Optics.
- 753 Epic. Mythic. Idealistic
- 754 Genre. Still life
- 755 Religious. Ecclesiastic
- 756 Historical. Battle scenes
- 757 Portrait
- 758 Landscape and marine. Animals. Flowers
- 759 Various schools of painting

760 Engraving

- 761 Wood
- 762 Copper and steel
- 763 Lithography
- 764 Chromolithography
- 765 Line and stipple
- 766 Mezzotint and aquatint
- 767 Etching. Dry point
- 768 Bank-note and machine
- 769 Collections of engravings

770 Photography

- 771 Materials. Photographic chemistry
- 772 Silver processes. Daguerreotype. Talbotype. Colodion process. Ambrotype, etc. Dry-plate processes
- 773 Gelatin and pigment processes. Woodburytype. Carbon process. Lambertype. Autotype, etc.
- 774 Gelatin and printer's ink processes. Albertype. Heliotype. Artotype, etc.
- 775 Photo-lithography, etc.
- 776 Photo-zincography, etc.
- 777 Photo-engraving and Photo-electrotyping
- 778 Special applications See 522, Astronomy; 578, Microscopy.
- 779 Collections of photographs

780 Music

All heads include both the music itself and everything about it: Score, libretto, history, criticism, etc.

- 781 Theory of music
- 782 Dramatic music
- 783 Sacred music
 - See 245, Hymnology, sacred poetry for hymns alone; if with tunes they go in 783; 786, Organ; 246, Evangelistic use and eucharistic music; 264, Public worship.
- 784 Vocal music
- 785 Orchestral music
 - For Dramatic orchestral music, see 782; Sacred, 783.
- 786 Piano and organ
- 787 Stringed instruments
 - Including history, manufacture, instruction, music, etc.
- 788 Wind instruments
 - Including history, manufacture, instruction, music, etc.
- 789 Percussion and mechanical instruments

790 Amusements For Ethics of amusements, see 175.

791 Public entertainment

Concert, panorama, circus, menagerie, summer resort, garden, rink, museum, fair, festival.

792 Theater. Pantomime. Opera See also 782, Dramatic music.

793 In-door amusements

Private theatricals, tableaux, charades, dancing.

794 Games of skill

Chess, checkers, billiards, bowling, bagatel.

795 Games of chance

Cards, dice, backgammon, dominoes.

796 Out-door sports

Children's sports, athletic sports, coasting, skating, cycling, quoits, archery, croquet, lawn tennis.

797 Boating and ball

Rowing, yachting, base-ball, foot-ball, cricket, polo.

798 Horsemanship and racing

799 Fishing, hunting, target shooting

Literature

The classification of literature is by *language*, not country, except that North and South American are separated from other English. Canadian French goes with 840; Australian and Indian English with 820; South American Spanish with 860, etc.

800 Literature. General works

- 801 Philosophy. Theories. Literary esthetics
- 802 Compends. Outlines
- 803 Dictionaries. Cyclopedias
- 804 Essays. Lectures. Addresses
- 805 Periodicals. Magazines. Reviews
- 806 Societies. Transactions. Reports
- 807 Education. Study and teaching
- 808 Rhetoric. Treatises. Collections
- 809 History of literature Including general histories of books and knowledge;
e. g. Hallam's *Literature of the middle ages*.

810 American literature Includes Canadian English.

- 811 American poetry
- 812 American drama
- 813 American fiction
- 814 American essays
- 815 American oratory
- 816 American letters
- 817 American satire and humor
- 818 American miscellany

820 English literature

- 821 English poetry
- 822 English drama
- 823 English fiction
- 824 English essays
- 825 English oratory For Speakers, see 808.
- 826 English letters
- 827 English satire and humor
- 828 English miscellany

Anecdotes, ana, epigrams, quotations, etc., if illustrative of any special subject (e. g., biography, history, science, art), go with that subject. If general they go in 828. For Riddles, Proverbs, see 398. The same rule applies to other languages in 838, 848, etc.

829 Anglo-Saxon literature

830 German literature

- 831 German poetry
- 832 German drama
- 833 German fiction
- 834 German essays
- 835 German oratory
- 836 German letters
- 837 German satire and humor
- 838 German miscellany See 828, note.

839 Minor Teutonic literatures**840 French literature**

- 841 French poetry
- 842 French drama
- 843 French fiction
- 844 French essays
- 845 French oratory
- 846 French letters
- 847 French satire and humor

849 Provençal literature**850 Italian literature**

- 851 Italian poetry
- 852 Italian drama
- 853 Italian fiction
- 854 Italian essays
- 855 Italian oratory
- 856 Italian letters
- 857 Italian satire and humor
- 858 Italian miscellany

859 Wallachian literature**860 Spanish literature**

- 861 Spanish poetry
- 862 Spanish drama
- 863 Spanish fiction
- 864 Spanish essays
- 865 Spanish oratory
- 866 Spanish letters
- 867 Spanish satire and humor
- 868 Spanish miscellany

869 Portuguese literature

870 Latin literature

- 871 Latin poetry in general
See Dramatic, Epic and Lyric below.
- 872 Latin drama
- 873 Latin epic poetry
- 874 Latin lyric poetry
- 875 Latin oratory
- 876 Latin letters
- 877 Latin satire and humor
- 878 Latin miscellany
- 879 Medieval and modern Latin

880 Greek literature

- 881 Greek poetry in general
See Dramatic, Epic and Lyric below.
- 882 Greek dramatic poetry
- 883 Greek epic poetry
- 884 Greek lyric poetry
- 885 Greek oratory
- 886 Greek letters
- 887 Greek satire and humor
For Comedies of Aristophanes see 882.
- 888 Greek miscellany
- 889 Medieval and modern Greek

890 Literature of minor languages

- 891 Minor Indo-European
- 892 Semitic
- 893 Hamitic
- 894 Scythian. Ural-Altaic. Turanian
Dravidian. Tamil. Finnish. Turkish.
- 895 Eastern Asiatic. Chinese
- 896 African
Excluding 893, Hamitic; 892, Semitic, etc., included in families above.
- 897 North American
- 898 South American
- 899 Malay-Polynesian and other

History

900 History. General works

901-909 all have *History in general* as their subject, but it is treated in these various forms. A periodical on English history goes with 942, not 905, which is only for periodicals on history in general.

- 901 Philosophy. Theories, etc. History of civilization
- 902 Compends. Chronologies. Charts. Outlines
For chronology as a science, see 529.
- 903 Dictionaries. Cyclopedias
- 904 Essays. Lectures. Addresses
- 905 Periodicals. Magazines. Reviews
- 906 Societies. Transactions. Reports
- 907 Education. Methods of teaching, writing, etc.
See also 371.
- 908 Polygraphy. Collected works. Extracts, etc.
- 909 Universal and general modern histories

910 Geografy and travels

Including Topografy, Maps, Antiquities, Descriptions, etc.
For map projection, see 526. See also 310 Statistics, 390 Customs and costumes.
For Directories, Guide books, Gazetteers, etc., of special countries or geographical sections, see under those sections, 914-919.

- 911 Historical. Growth and changes in political divisions, etc.
- 912 Maps, atlases, plans of cities, etc.
- 913 Antiquities, archeology, of special countries

See also 220 9, Biblical antiquities; 340, Legal antiquities; 571, Prehistoric archeology; 930, Ancient history; 390, Special customs.

913.3 Antiquities of ancient countries

- 31 China
- 32 Egypt
- 33 Judea
- 34 India
- 35 Medo-Persia
- 36 Kelts
- 37 Rome. Italy
- 38 Greece
- 39 Minor countries

Antiquities of modern countries

- 913.4 Europe
- .5 Asia
- .6 Africa
- .7 North America
- .8 South America
- .9 Oceanica

914 Travel in Europe

- .1 Scotland
- .15 Ireland
- .16 Ulster
- .17 Connaught
- .18 Leinster
- .19 Munster
- .2 England
- .21 London
- .29 Wales
- .3 Germany and Austria
- .31 Prussia and Northern Germany
- .36 Austria
- .37 Bohemia
- .38 Poland
- .39 Hungary
- .4 France
- .5 Italy
- .6 Spain
- .69 Portugal
- .7 Russia
- .8 Norway, Sweden and Denmark
- .81 Norway
- .82 Christiania
- .83 Christiansand. Bergen
- .84 Hamar. Thronhjelm. Tromsø
- .85 Sweden
- .86 Gothland
- .87 Svealand
- .88 Norrland
- .89 Denmark

914.9 Minor countries of Europe

- .91 Iceland. Faroe islands
- .92 Netherlands
- .93 Belgium
- .94 Switzerland
- .95 Greece
- .96 Turkey in Europe
- .97 Servia. Bulgaria. Montenegro
- .98 Roumania: Wallachia, Moldavia
- .99 Islands of Grecian archipelago

915 Travel in Asia

- .1 China
- .2 Japan
- .3 Arabia
- .4 India
- .5 Persia
- .6 Turkey in Asia
- .7 Siberia
- .8 Afghanistan, Turkestan, Baluchistan
- .9 Farther India

916 Travel in Africa

- .1 North Africa
- .2 Egypt
- .3 Abyssinia
- .4 Morocco
- .5 Algeria
- .6 North Central Africa
- .7 South Central Africa
- .8 South Africa
- .9 Madagascar. Mauritius

917 Travel in North America

- .1 Canada. British America
- .2 Mexico
- .28 Central America
- .29 West Indies

- 917.3 United States**
- .4 Northeastern or North Atlantic. New England**
- .41 Maine
- .42 New Hampshire
- .43 Vermont
- .44 Massachusetts
- .45 Rhode Island
- .46 Connecticut
- .47 New York
- .48 Pennsylvania
- .49 New Jersey
- .5 Southeastern or South Atlantic**
- .51 Delaware
- .52 Maryland
- .53 District of Columbia
- .54 West Virginia
- .55 Virginia
- .56 North Carolina
- .57 South Carolina
- .58 Georgia
- .59 Florida
- .6 South central or Gulf**
- .61 Alabama
- .62 Mississippi
- .63 Louisiana
- .64 Texas
- .65
- .66 Oklahoma. Indian Territory
- .67 Arkansas
- .68 Tennessee
- .69 Kentucky
- .7 North central or Lake**
- .71 Ohio
- .72 Indiana
- .73 Illinois
- .74 Michigan
- .75 Wisconsin
- .76 Minnesota
- .77 Iowa
- .78 Missouri
- .79

917.8

Western or Mountain

Including general works on "the West."

- .81 Kansas
- .82 Nebraska
- .83 South Dakota
- .84 North Dakota
- .85
- .86 Montana
- .87 Wyoming
- .88 Colorado
- .89 New Mexico

.9

Pacific

- .91 Arizona
- .92 Utah
- .93 Nevada
- .94 California
- .95 Oregon
- .96 Idaho
- .97 Washington
- .98 Alaska
- .99

918

Travel in South America

- .1 Brazil
- .2 Argentine Republic. Patagonia
- .3 Chili
- .4 Bolivia
- .5 Peru
- .6 U. S. of Colombia. New Granada. Ecuador
- .7 Venezuela
- .8 Guiana
- .9 Paraguay. Uruguay

919

Travel in Oceanica and Polar regions

- .1 Malaysia
- .2 Sunda
- .3 Australasia
- .4 Australia
- .5 New Guinea
- .6 Polynesia
- .7 Isolated islands
- .8 Arctic regions
- .9 Antarctic regions

920 Biografy

Collectiv biografy, including biografic dictionaries, etc. is here group together under the main classes; e. g. collected lives of chemists or of botanists are 925; of sailors, 926; of actors, 927.

Individual biografy includes autobiography, diaries, personal narrativs, eulogies, etc. This is mark B in place of the class number and arranged by names of persons written about. For book numbers, see p. 17.

Collectiv by subjects

920.7 Collected biografy of women

- | | |
|-----|---|
| 921 | Philosofy |
| 922 | Religion. Clergy, missionaries, preachers |
| 923 | Sociology |
| 924 | Philology |
| 925 | Science |
| 926 | Useful arts |
| 927 | Fine arts |
| 928 | Literature |

Historians are put with authors in 928.

929 Genealogy and heraldry

- | | |
|----|---------------------------------------|
| .6 | Heraldry |
| .7 | Peerages, precedence, titles of honor |
| .8 | Coats of arms, crests |
| .9 | Flags |

930 Ancient history To A. D. 476.

- | | |
|-----|-----------------|
| 931 | China |
| 932 | Egypt |
| 933 | Judea |
| 934 | India |
| 935 | Medo-Persia |
| 936 | Kelts |
| 937 | Rome. Italy |
| 938 | Greece |
| 939 | Minor countries |

Modern history

940 Europe

From the fall of Western Empire (Rome), A. D. 476.

- 941 Scotland
- 941.5 Ireland
 - .6 Ulster
 - .7 Connaught
 - .8 Leinster
 - .9 Munster
- 942 England

Period divisions

.01	Anglo-Saxon.	B. C. 55-A. D. 1066.
	Including prehistoric, Roman, British, Danish.	
.02	Norman.	1066-1154.
.03	Plantagenet.	1154-1399.
.04	Lancaster and York.	1400-1485.
.05	Tudor.	1485-1603.
.06	Stuart.	1603-1714.
.07	Hanover.	1714-1837.
.08	Victorian.	1837-

Geografic division

- .1 Middlesex. London
- .9 Wales
- 943 Germany and Austria
- 943.1 Prussia and northern Germany
- 943.6 Austria
 - .7 Bohemia, etc.
 - .8 Poland. Including the history before the division.
 - .9 Hungary, etc.
- 944 France
- 945 Italy
- 946 Spain
 - .9 Portugal
- 947 Russia

- 948 Norway, Sweden, and Denmark
 - .1 Norway
 - .2 Christiania
 - .3 Christiansand. Bergen
 - .4 Hamar. Throndhjem. Tromso
 - .5 Sweden
 - .6 Gothland
 - .7 Svealand
 - .8 Norrland
 - .9 Denmark
- 949 Minor countries of Europe
 - .1 Iceland. Faroe islands
 - .2 Netherlands
 - .3 Belgium
 - .4 Switzerland
 - .5 Byzantine empire and modern Greece
 - .6 Turkey in Europe
 - .7 Servia. Bulgaria. Montenegro
 - .8 Roumania: Wallachia, Moldavia
 - .9 Islands of Grecian archipelago

950 Asia

- 951 China
- 952 Japan
- 953 Arabia
- 954 India
- 955 Persia
- 956 Turkey in Asia See also 949.6.
- 957 Siberia
- 958 Afghanistan. Turkestan. Baluchistan
- 959 Farther India

960 Africa

- 961 North Africa
- 962 Egypt
- 963 Abyssinia
- 964 Morocco
- 965 Algeria
- 966 North Central Africa
- 967 South Central Africa
- 968 South Africa
- 969 Madagascar. Mauritius

970 North America

.1 Indians, Aborigines; .2 Lives of Indians; .3 Special tribes; .4 Special states; .5 Government relation and treatment; .6 Special subjects, Character, Civilization, Agriculture, etc.

See 371, Education; 572, Ethnology, 497, Languages.

971 Canada. British America.

972 Mexico. Central America

.8 Central America

.9 West Indies

973 United States and Territories

See also 342, Constitutional law and history; 328, Legislative bodies and annals; 329, Political parties.

Period divisions

- | | | |
|----|---|-----------------|
| .1 | Discovery.
Norse, Spanish, Dutch, French, English | A. D. 896-1607. |
| .2 | Colonial.
French and Indian Wars. | 1607-1775. |
| .3 | Revolution and Confederation. | 1775-1789. |
| .4 | Constitutional Period. For U. S. Constitution, see 432.73.
Federalists and Republicans. See 329.1.
Washington, 1789-1797; John Adams, 1797-1801; Jefferson, 1801-1809. | 1789-1812. |
| .5 | War of 1812.
Hartford Convention. 1814.
Nullification in South Carolina. 1832.
Annexation of Texas. 1845. See also 976.4, Texas.
Madison, 1800-1817; Monroe, 1817-1825; John Quincy Adams, 1825-1829; Jackson, 1829-1837; Van Buren, 1837-1841; Harrison, 1841; Tyler, 1841-1845. | 1812-1845. |
| .6 | War with Mexico.
The Wilmot proviso. 1846.
Compromise of 1850.
Struggle in Kansas. 1854-1859. See also 978.1, Kansas.
Polk, 1845-1849; Taylor, 1849-1850; Fillmore, 1850-1853; Pierce, 1853-1857; Buchanan, 1857-1861. | 1845-1861. |
| .7 | Civil War. Abolition of slavery. Lincoln, 1861-1865. | |
| .8 | Later 19th century.
Reconstruction. Civil service reform. Spanish War.
Johnson, 1865-1869; Grant, 1869-1877; Hayes, 1877-1881; Garfield, 1881; Arthur, 1881-1885; Cleveland, 1885-1889; Harrison, 1889-1893; Cleveland, 1893-1897; McKinley, 1897-1901. | 1865—. |
| .9 | 20th century.
Roosevelt, 1901-1909; Taft, 1909- | |

- 974 Northeastern or North Atlantic. New England.
- .1 Maine
 - .2 New Hampshire
 - .3 Vermont
 - .4 Massachusetts
 - .5 Rhode Island
 - .6 Connecticut
 - .7 New York
 - .8 Pennsylvania
 - .9 New Jersey
- 975 Southeastern or South Atlantic
- Including general works on "the South."
- .1 Delaware
 - .2 Maryland
 - .3 District of Columbia
 - .4 West Virginia
 - .5 Virginia
 - .6 North Carolina
 - .7 South Carolina
 - .8 Georgia
 - .9 Florida
- 976 South central or Gulf
- .1 Alabama
 - .2 Mississippi
 - .3 Louisiana
 - .4 Texas
 - .5
 - .6 Oklahoma. Indian Territory
 - .7 Arkansas
 - .8 Tennessee
 - .9 Kentucky
- 977 North central or Lake
- .1 Ohio
 - .2 Indiana
 - .3 Illinois
 - .4 Michigan
 - .5 Wisconsin
 - .6 Minnesota
 - .7 Iowa
 - .8 Missouri
 - .9

- 978 Western or Mountain
 Including general works on "the West,"
- .1 Kansas
 - .2 Nebraska
 - .3 South Dakota Including works on Dakota as a whole.
 - .4 North Dakota
 - .5
 - .6 Montana
 - .7 Wyoming
 - .8 Colorado
 - .9 New Mexico
- 979 Pacific
- .1 Arizona
 - .2 Utah
 - .3 Nevada
 - .4 California
 - .5 Oregon
 - .6 Idaho
 - .7 Washington
 - .8 Alaska

980 South America

- 981 Brazil
- 982 Argentine Republic. Patagonia
- 983 Chili
- 984 Bolivia
- 985 Peru
- 986 U. S. of Colombia. New Granada. Ecuador
- 987 Venezuela
- 988 Guiana
- 989 Paraguay. Uruguay

990 Oceania. Polar regions

- 991 Malaysia
- 992 Sunda
- 993 Australasia
- 994 Australia
- 995 New Guinea
- 996 Polynesia
- 997 Isolated islands
- 998 Arctic regions
- 999 Antarctic regions

RELATIV SUBJECT INDEX

HOW TO USE THIS INDEX

Find the subject wanted in its alfabetic place in the index. The number after it is its class number and refers to the place where the topic will be found, in numerical order of class numbers, on the shelves, shelf-lists or in the subject catalog, if used. All class numbers are decimal; e. g. 914.29 travel in Wales, comes before 914.3 travel in Germany, and both of them before 915 travel in Asia. Printed labels on the shelves or drawer fronts guide readily to the class number sought.

Under this class number will be found the resources of the library on the subject desired. Other adjoining subjects may often be profitably consulted; e. g. a description of Niagara Falls is wanted and the index refers to 917.47, but much on this topic is likely also to be found in 917.4 (travel in north Atlantic states) and even in 917.3 (travel in United States).

This index contains

in a single alfabet all subjects named in the tables, together with their synonyms and such other topics as are thought most likely to be needed by libraries using this abridgment.

If nothing is found under a number, it shows that the library does not yet possess any book on that topic.

It does not include

all names of places, minerals, plants, etc.; but gives only those used in these tables and a farther selection of the most common and useful. It is not a biografic dictionary, and gives **no names of persons** as biografic headings, but only such as appear in connection with some subject like literature or history.

RELATIV SUBJECT INDEX

Abacus	arithmetic	511	Abstinence	asceticism	248
Abattoirs	public health	614		temperance	178
	sanitary engineering	628	Abstracting	literary methods	029
Abbassides	history	956	Abstraction	philosophy	153
Abbeys	architecture	726	Abyssinia	geology	556.3
	history	271		history	963
Abbot of misrule	customs	394		language	492
Abbots	monastic orders	271		religious history	276.3
Abbreviations	literary methods	029		travel	916.3
	shorthand	653	Academic degrees and costume		378
Abdication	constitutional history	342	Academies	architecture	727
	political science	321		female	376
Abduction	criminal law	343		learned general societies	060
Aberration	astronomy	522		of special subject see subject	
	mental	disease 616		private	373
		hospitals 362		public	379
		insanity 132		scientific	506
	optics	535	Academy, New		186
Ability, human, doctrin		233		Older, Plato	184
Abipones	history	982	Acadia, Nova Scotia	history	971
Abode of animals, geog. distrib.		591.9	Acalepha	zoology	593
	habits	591	Accession dep't, library admin.		025
Abolition	political science	326	Accidence	English language	425
	U. S. history	973.7		French	445
Abolitionists' lives		923		German	435
Aborigines	Amer. antiquities	913.7		Greek	485
	Amer. history	970.1		Italian	455
	ethnology	572		Latin	475
	prehistoric archeology	571		Spanish	465
Abortion	ethics	173	Accident insurance		368
	law	343	Accidents	medicine	617
	obstetrics	618		protection of public	614.8
Abrasions	surgery	617	Acclimation	hygiene	613
Abraxas	gems	736		of animals	591
	Gnostics	273		man	573
Abridging	literary methods	029		plants	581
	shorthand	653	Accomplices	criminal law	343
Abridgments	English law	346	Accountability	doctrin	233
	U. S. law	345	Accounts, bookkeeping		657
Abscess	surgery	617		library administration	025
Absent-mindedness	philosophy	151	Accumulation	capital	331
Absenteeism	Irish history	941.5	Achaian leag		938
	sociology	333	Achromatism	optics	535
Absolute, the	ontology	111	Acids	chemical technology	661
Absolution	sacrament	265		organic chemistry	547
Absolutism	political science	321		theoretic	541
	predestination	234	Acoustics	music	781
Absorption	heat	536		physics	534
	light	535	Acrobats	amusements	791
	liquids	532	Acropolis	architecture	722

Topics in black-faced type are subdivided in tables.

Acropolis	Grecian antiquities	913.38	Advocates, Faculty of	347
Acrostics	English language	828	lives	923
Acting	ethics	175	Advowsons	canon law 348
	theater	792	Ædiles	Roman antiquities 913.37
Actinism	optics	535	Æolian harp	music 787
	photografy	771	Æolic dialect	Greek language 487
Actinozoa	zoology	593	Aerated bread	641
Actions	legal procedure	347	Aerial erosion, geology	551
Actors' lives		927	navigation pneumatics	533
Acts and resolves	Am. statutes	345	Aerodynamics	533
	Eng. "	346	Aerolites	astronomy 523
Acts of learned societies general	060		geology	552
for special subjects see topic			Aeronautics	533
legislative bodies, U. S.	345		Aerofytes	lichens 589
Acts of the Apostles	226			orchids 584
Acute diseases	616		Æsthetics	fine arts 701
Ad valorem duty	protection 337		Æthiopia	ancient history 939
	taxes 336		Ætolian leag	Greek history 938
Adages	English literature 828		Affections	157
	folk-lore 398		Affidavits	law 347
Adams, J: presidency of	973.4		Affinity	chemical 541
J: Q. "	973.5			family law 347
Addition	arithmetic 511		Afghanistan	geology 555.8
Addresses on special topics see topic				history 958
Adhesion	physics 539			religious history 275.8
Adirondacks	travel 917.47			travel 915.8
Adjutant-general's reports, U. S.	353		Aforisms	English literature 828
Administration, library	025			folk-lore 398
of medicins, therapeutics	615		Africa	antiquities 913.6
political sci.	350			botany 581.9
Administrativ buildings, architecture	725			geology 556
law	350			history 960
reform	351			religious history 276
Administrator, law	347			scientific travels and
Admirals' lives	923			surveys 508.6
Admiralty	foreign countries 354			statistics 316
Admiralty Islands	history 993			travel 916
Admiralty law	347		Africa, North	geology 556.1
Admission	school 371			history 961
Adobe	masonry 693			religious history 276.1
Adoption	family law 347			travel 916.1
Adulterations, chemical analysis	543		North	Central, geology 556.6
" technology	660			history 966
public health	614.3			religious history 276.6
Adultery	ethics 176			travel 916.6
	law 343		Propria, ancient history	939
Ad valorem duty	protection 337		South, geology	556.8
	taxes 336			history 968
Advent	church festivals 262			religious history 276.8
	second christology 232			travel 916.8
Adventists, second sect	289		South Central, geology	556.7
Adventures	biografy 923			history 967
	travels, etc. 910			religious history 276.7
Adversity	pauperism 339			travel 916.7
Advertising	659		African colonization, sociology	325

Topics in black-faced type are subdivided in tables.

African	history	960	Air analysis	chemistry	543
	languages	496	brakes	railroad engineering	625
	Hamitic	493	compressors	mech. engineering	621
	literature	896	disinfection	contagious diseases	614
	methodist church	287	ducts	ventilation	607
	slave trade	326	engines	mech. engineering	621
Age, influence of	mental character-		gun	military engineering	623
	istics	136		mechanic trades	683
	therapeutics	615	hygiene		613
of animals	zoology	591		public health	614
man	physiology	612	meteorology		551
	natural hist. of man	573	plants	lichens	589
	statistics	312		orchids	584
	pupils	379	pneumatics		533
	the world	550	pollution	public health	614
	voters	324	pump		533
Aged, hospitals for		362	ventilation		628
Agents, consular		341	Aix-la-Chapelle	internat. congress	341
	geologic	551		treaties	341
	law	347	Alabama, U. S.	history	976.1
Ages, archeologic		571		travel	917.61
	geologic	551		claims, England	942.08
Agglutination	philology	401		international law	341
Agnosticism	natural theology	211		United States	973.7
	philosophy	149	Alarms, fire	protection of public	614.8
Agnostics	religious heresy	273		signals	654
Agrarian laws	political science	333	Alaska, U. S.	history	979.8
	Roman history	937		travel	917.98
Agreements	ethics	174		purchase U. S. history	973.8
	law	347	Albert N'yanza	travel	916.7
Agricultural	botany	581	Albertypes		774
	chemistry	631	Albigenses	French history	944
	classes pol. econ.	331		persecutions	272
	colleges	630		sect	284
	colonization	325	Albinism	animals	591
	experiment stations	630		dermatology	616
	geology agriculture	631	Alchemy		540
	econ. geol.	553	Alcohol	hygiene	613
	implements	630		materia medica	615
	law	347	Alcoholic liquors, manufacture		663
	pests agriculture	632		temperance	178
	" zoology	591	Alcoholism	diseases	616
	products pol. econ.	338	Alcohols	organic chemistry	547
	societies	630	Alcoran	Mohammedanism	297
	system pol. econ.	330	Alcoves	library economy	022
Agriculture		630	Aldermen	local government	352
	cooperativ	334	Aldine editions	rare printing	094
	department of	630	Ales	manufacture	663
	Indians	970.6	Aleutian Islands	history	979.8
	rent of land	333		travel	917.98
Aid societies	charitable associations	361	Alexandrian library		027
	cooperation	334		philosophy	186
Aid to the injured		614.8	Alfabet	elementary education	372
Aids to readers	library economy	028		English orthograpy	421
	lib. administration	025		French "	441

Topics in black-faced type are subdivided in tables.

Alfabet	German orthograpy	431	Almanacs, statistical	310
	Greek "	481	Alms ethics	177
	Italian "	451	Almshouses	362
	Latin "	471	architecture	725
	Spanish "	461	pauperism	339
Alfabetico-clast catalogs		019	Alphabet, see Alfabet	
Alfabet	ornamental design	745	Alpine plants botany	581.9
	philology	411	travels	914.94
Algae		589	Alps history	949.4
Algebra		512	Altar cloths sacred ornaments	247
Algebraic logic		164	Altars ecclesiology	246
Algeria, Africa, geology		556.5	Alt-azimuth instruments	522
	history	965	Altruism ethics	171
	religious history	276.5	Alumni biography	378
	travel	916.5	Alwato universal language	408
Algerine war		965	Amalgamation, metallurgy	669
	U. S. history	973.5	Amalgams manufactures	671
Algiers, Africa, history		965	Amateur manuals mech. trades	680
	travel	916.5	theatricals amusements	793
Alhambra	architecture	723	ethics	175
	history	946	Amazon river, travel	918.1
Aliens	international law	341	Amazons customs	396
	naturalization	325	Ambassadors international law	341
	owners of land, pol. econ.	333	political science	327
Alimentary canal	human anat.	611	Amber geology	553
	physiology	612	jewelry	391
Alimony	law	347	mineralogy	549
Alkalies	chemical technology	661	Ambrosia antiquities	913.38
	chemistry	546	mythology	292
Alkaline earths	chemistry	546	Ambrotype	772
Alkoran	Mohammedanism	297	Ambulances	614.8
All-fools' day	customs	394	America, Central geology	557.2
All-Hallows' eve	customs	394	history	972.8
All Saints, feast of, church festival		264	religious hist.	277.2
All Souls " " " "		264	travel	917.28
Alleghany mountains	travel	917.5	discovery of	973.1
Allegiance	English private law	347	history	970
	international law	341	North botany	581.9
	naturalization	325	geology	557
Allegories	English literature	828	history	970
	religious	244	religious history	277
Alliance, Evangelical		206	scientific travels and	
	Holy treaties	341	surveys	508.7
Alliances	international law	341	statistics	317
Alligation	arithmetic	511	travel	917
Alligators	zoology	598.1	Russian, history	979.8
Allodium	land ownership	333	travel	917.98
	law	347	South, geology	558
Allopathy	medicin	615	history	980
Allotropism	chemistry	541	religious history	278
Allotment system		333	scientific travels and	
Alloys		671	surveys	508.8
Alluvium	geology	551	statistics	318
Almanacs, general		529	travel	918
	nautical	528	American and Eng. private law	347

Topics in black-faced type are subdivided in tables.

American antiquities	913.7	Analysis	chemical	543
colonies history	973.2		grammar English	425
copyright leag	655		logic	160
cyclopedias	031		microscopic	578
essays, collected	041		milk, adulterations	614.3
independence, U.S. hist.	973.3		mineralogy	549
Indians	970.1		qualitativ, chem.	544
journalism	071		quantitativ, chem.	545
languages No. Amer.	497		soil hygiene	614
So. Amer.	498		sounds acoustics	534
literature	810		spectrum astronomy	522
newspapers, general	071		" chemistry	544
painting	759		" optics	535
party	329		water biol. hygiene	613
periodicals, general	051	Analysts, public adulterations		614.3
philosophy	191	Analytic chemistry		543
political parties	329		geometry	516
P. E. church	283		trigonometry	514
rebellion history	973.7	Anam, Asia	history	959
revolution	973.3		travel	915.9
slavery	326	Anarchists	socialism	335
societies, general	061	Anatomy	animals	591
statutes law	345		art	743
Americana history	970		human	611
Americanisms	427		laws public health	614
Amharic language	492		pathologic	616
Amiens, peace of treaties	341		plants	581
Ammergau passion play theater	792		vivisection ethics	179
Ammonia chemical technology	661	Ancestry	evolution	575
stimulants	615		genealogy	929
Ammonium organic chemistry	547		mental science	136
Ammunition military engineering	623		spiritual heredity	233
Amnesty	341		traductionism	129
Amos, book of, Bible	224	Anchor ice	occurrence in nature	551
Amphibians	597	Ancient architecture		722
Amphictyonic council, Grecian history	938		countries description	913.3
Amphitheater antiquities	913.37		customs	913.3
architecture	722		customs and costume	390
Amputation surgery	617		geografy description	911
Amsterdam history	949.2		history	930
travel	914.92		law	349
Amusement or play hygiene	613.7		maps	912
Amusements	790		music	781
ethics	175		philosofers' lives	921
of laboring classes	331		philosophies	180
Sunday	263		science	502
Ana	English literature		sculpture	732
Anabaptists	sects	Ancients, council of	French legisla-	
Anagrams	English literature	ture		328
	pseudonyms	Andersonville prison	U. S. history	973.7
Analogy	logic	Andes, description		918
	theology	Andorra		946
Analysis	arithmetic	Anecdotes	legal	340
	blowpipe chemistry		miscel. Eng. lit.	828
	botanical		personal, see Biografy	
				581

Topics in black-faced type are subdivided in tables.

Anecdotes religious	244	Annealing molecular physics	539
on spec. topics, see subject		Annexation intern. law	341
Anemometer meteorology	551	Annihilation doctrins	237
Aneroid barometer physics	533	natural theology	218
Anesthetics therapeutics	615	Annals, statistical	310
Angels	235	special, see subject	
Anger ethics	179	Annuities insurance	368
Angevin architecture Romanesque	723	mathematics	519
Anglican biography	922	public finance	336
brotherhoods	271	Annunciation, feast of ch. festival	264
church	283	Annunciators signals	654
creed	238	Anodynes therapeutics	615
missions	266	Anointing sacraments	265
persecutions Eng. hist.	942.05	Anonyms bibliography	014
" relig. "	272	Ansarii history	955
relig. hist. of Eng.	274.2	Anselm medieval philosophy	189
sisterhoods	271	Ant insects	595
Anglicisms English language	427	Antagonism of medicins, therapeutics	615
Angling	799	Antarctic current ocean currents	551
Anglo-catholics	283	explorations, travel	919.9
Anglo-Saxon history	942.01	ocean oceans	551
language	429	regions geology	559.9
literature	829	history	999
Anglomaniya customs	390	religious hist.	279.9
Anilin, colors, chemical technology	667	Ante-Nicene church, A. D. 100-325	281
Animal chemistry	547	Anthems music	783
electricity	134	public worship	264
food hygiene	613	religious poetry	245
hygiene public health	614	Anthologies Eng. literature	820
intelligence zoology	591	Anthracite econ. geology	553
kingdom	590	fuel	644
magnetism	134	metallurgy	669
parasites diseases	616	Anthropofagy cannibalism	399
plagues veterinary med.	619	Anthropoid apes mammals	599
psychology zoology	591	Anthropology mind and body	130
trades air pollution	614	nat. hist. of man	573
worship, non-Christian re-		relig. doct. of man	233
ligions	290	Anthropometry	573
Animalculae	593	Anthropomorfism metaphysics	125
Animals and plants differences	577	Antiburghers presbyterians	285
cruelty to ethics	179	Anti-Christ	235
diseases veterinary medicine	619	Anti-corn law leag free trade	337
domestic	636	Antidotes materia medica	615
evolution	575	Anti-federal party	329
geografic distribution	591.9	Antifonal choral service music	783
insurance	368	readings pub. worship	264
locomotion of	591	Antilles history	972.9
menageries	590	travel	917.29
mind in	591	Anti Masonry	366
paleontology	560	Antimony inorganic chemistry	546
remains of prehist. arch.	571	ores	553
training of domestic	636	Anthomianism	273
Animism metaphysics	128	Antiquarian societies	913
Anne, Queen architecture	724	Antiquarians' lives	923
Annealing manufactures	671	Antiquities Biblical	220.9

Topics in black-faced type are subdivided in tables.

Antiquities	classical	913.38	Appetites	mental faculties	158
	countries	913		temperance	178
	customs	390	Apple culture		634
	Jewish antiquities	913.33	Applied chemistry	chem. tech.	660
	history	933		mechanics mech. eng.	621
	religion	296		science schools	607
	legal	340	Appiqué work		746
	prehistoric archeology	571	Appointment of civil service officers		351
	see also special subjects			teachers education	371
Antiquity of man		573	Apportionment	representation	324
Antiseptics	public health	614		taxation	336
	therapeutics	615	Apprentices, duties of	ethics	174
Antislavery	slavery	326	Apprenticeship	polit. econ.	331
	U. S. history	973.7	Appropriation bills	U. S. finance	336
Antitrinitarians	heresies	273	Aquaria		590
	unitarians	288	Aquatint	engraving	766
Ants	insects	595	Aqueducts	canals	626
Antwerp	history	949.3		Roman antiquities	913.37
	travel	914.93		waterworks	628
Apartment and office buildings		725	Aqueous erosion	geology	551
	houses architecture	728		rocks	552
	domestic economy	647	Aquinas	medieval philosophy	189
Apatite	economic geology	553	Arabesque decoration	design	745
	fertilizers	631	Arabesques	ornaments	747
	mineralogy	549	Arabia	ancient history	939
Apes		599		geology	555.3
Aphelion	astronomy	521		modern history	953
Apiary	bees	638		religious history	275.3
Apocalypse		228		travel	915.3
Apocryfa		229	Arabic architecture		723
Apocryfal gospels	Bible	229		language	492
Apogee	moon	523		literature	892
	tides	525		numerals arithmetic	511
Apollo Belvedere	sculpture	733		philosophy	189
Apollo-worship		292	Arabs in Spain	Spanish history	946
Apologetics		239	Aramaic language		492
Apoplexy	diseases	616	Arbitrary power	absolute monarchy	321
Apostasy	heresies	273	Arbitration and award	law	347
Apostles, acts of		226		capital and labor	331
Apostles' creed		238		international ethics	172
	lives, scriptural biography	225		law	341
Apostolic	canons apocryfa	229	Arbor day		715
	catholic, sects	289	Arboriculture	forestry	634
	church	281		landscape gardening	715
	constitutions	281	Arbors	" "	717
	epistles	229	Arcades	architectural design	729
	fathers	281		walls	721
	succession	262	Arcadia	Greek anc. history	938
Apothecary		615	Archaeal age	geology	551
Apothegms	English literature	828	Archaisms	English language	427
	folk-lore	398	Archbishops	ecclesiastical polity	262
Apparatus	manufacture	681		lives	922
	practical chemistry	542	Archeology	anc. description, etc.	913
	see special subject			Biblical	220.9
Apparitions		133		prehistoric	571

Topics in black-faced type are subdivided in tables.

Archery	796	Arithmetic political statistics	310
Arches	729	Arithmometer	510
architectural design	721	Arizona, U. S. history	979.1
constr.	624	travel	917.91
engineering	913.37	Arkansas, U.S. history	976.7
triumfal, Rom. antiq.	532	travel	917.67
Archimedes screw physics	991	Armaments ordnance	623
Archipelago, East Indian	939	Armed neutrality international law	341
Greek, ancient hist.	949.9	Armenian architecture	723
modern hist.	692	church	281
Architects, liability of building	927	language	491
Architects' lives	721	literature	891
Architectural construction	729	Armies Amer. civil war	973.7
decoration	729	military engineering	623
design	744	military science	355
drawing	720	Armies war customs	399
Architecture	722	Arminianism continental prot. sects	284
East Indian	723	methodism	287
Gothic	623	Armistice international law	341
military engineering	728	Armor war costumes	399
castles	724	Armored vessels military engineering	623
modern	623	Armorican language	491
naval engineering	723	Armories architecture	725
Norman	692	military engineering	623
plans	623	Arms, artificial	617
warships		coats of heraldry	929.8
Archives, see history		gun-making	683
" manuscripts		military engineering	623
of special topics see topic		military science	355
Arctic currents	551	war customs	399
explorations travel	919.8	Army foreign countries	354
explorers' lives	923	military science	355
ocean	551	officials, lives	923
regions geology	559.8	regulations	355
history	998	Salvation	267
religious history	279.8	United States	353
Ardent spirits manufactures	663	worm agriculture	632
temperance	178	zoology	591
Areometer specific gravity	532	Arondissement French loc. gov't	352
Argentine Republic geology	558.2	Arrow head inscriptions	492
history	982	heads, stone prehist. arch.	571
religious history	278.2	war implements	399
statistics	318	Arrows archery	796
travel	918.2	Arsacidae history	935
Argonauts Greek mythology	292	Arsenals architecture	725
Argot French language	447	military engineering	623
other languages		Arsenic drugs	615
Argument logic	168	inorganic chemistry	546
from design apologetics	239	medical jurisprudence	340
Aria vocal music	784	metallic poisons	615
Arianism heresies	273	Arson criminal law	343
Aristocracy polit. science	321	Art anatomy drawing	743
Aristotelian philosophy	185	biography	927
Arithmetic	511	Christian, ecclesiology	246
elementary education	372		

Topics in black-faced type are subdivided in tables.

Art	decorativ furniture	749	Aryan	racess ethnology	572
	education	707	Asbestos	economic geology	553
	embroidery	746	Ascensions, balloon	aeronautics	533
	fine	700	Asceticism	heresy	273
	galleries	708		personal religion	248
	architecture	727	Asfalt	economic geology	553
	history	709		pavement	625
	industrial, useful arts	600		roofing	695
	interior decoration	747	Asfaltum	chemical technology	665
	needlework	746	Ashango land,	history	967
	religious	246		travel	916.7
	rudiments, prehistoric	571	Ashantee	history	966
	sacred furniture	247		travel	916.6
	schools	707	Ashburton treaty	internat. law	341
	studios architecture	727	Ashes	fertilizers	631
	useful	600	Asia	antiquities	913.05
	woman in	396		botany	581.9
Arteries	anatomy	611		geology	555
	diseases	616		history	950
Artesian wells, sanit. engineering		628		religious history	275
Arthropoda	zoology	595		scientific travels	
Arthrostraca	"	595		and surveys	508.5
Arthurian romances		398		statistics	315
Articles of confederation, U. S. const.				travel	915
	hist.	342	Asia Minor,	ancient history	939
	thirty-nine Anglican creed	238		modern history	956
Articulates	paleontology	565		travel	915.6
	zoology	595	Asiatic cholera	diseases	616
Artificial butter, chemical technology		664		languages	491-495
	colors	667		eastern	495
	eyes	617		societies	490
	flowers ornamental design	745	Ass	domestic animals	636
	fuel chemical technology	662		zoology	599
	ice manufacture	621	Assassination	criminal law	343
	lights chemical technology	665	Assassins	lives	923
	limbs	617		Persian history	955
	mineral waters, chem. tech.	663	Assault and battery	law	343
	stone building materials	691	Assaults	military engineering	623
	chemical technology	666	Assaying		669
	teeth dentistry	617	Assembly, legislativ		328
Artillery	army dep't	358	Assent	logic	163
	ordnance, mil. eng.	623	Assessment	taxes	336
Artisans' lives		926	Assignats	French finance	336
Artistic furniture		749	Assimilation of food	animals	591
Artists' lives		927		man	612
Artotype	photografy	774		plants	581
Arts and trades		600	Assize, courts of	law	347
	fine	700	Associated press	Amer. journalism	070
	biografy of	927	Association	mental faculties	153
	grafic fine arts	700	Associationalism	philosofy	149
	useful	600	Associations		360
	biografy of	926		building	332
Arundel marbles	Greek inscrip.	481		business cooperation	334
Aryan languages		491		charitable	361
	literatures	891		educational	370

Topics in black-faced type are subdivided in tables.

Associations	gilds	338	Atlases, etc.,	see also special topics	
	labor	331	Atmosfere	geologic agent	551
	musical	780		meteorology	551
	relig. Y. M. C., etc.	267		pneumatics	533
	for special object see topic		Atmosferic currents		551
Assurance		368		electricity	537
Assyria	ancient history	935		engines pneumatics	533
	antiquities	913.35		pressure "	533
	architecture	722		railways	625
Assyrian language		492	Atolls	physical geology	551
Asteroids	astronomy	523	Atomic theory		541
Astrology		133		weights	541
	astronomy	520	Atomistic philosophy		182
Astronomers' lives		925	Atoms		541
Astronomic almanacs	chronology	529	Atonement	christology	232
	instruments	522	Attendance	church	264
	maps	524		school	371
	observations	524	Attorneys	law	340
	spec. obs'tories	522		lives	923
	photografy	522	Attraction, capillary liquids		532
	physics	521		chemical affinity	541
Astronomy		520		gravity	531
	descriptiv	523		magnetism	538
	physical	521	Auburn prison system	prisons	365
	practical	522	Auction catalogs	bibliografy	018
	sferical	522	Auctions	book, library econ.	025
	theoretic	521		law of	347
Asylum, right of	legal antiquities	340	Audifone	acoustics	534
Asylums	architecture	725	Augsburg confession, Lutheranism		284
	hygiene of	613		reformation	270
	inebriate architec.	725	Augustine	medieval philosophy	189
	temperance	178	Augustinian monks		271
	sociology	362	Augustinism	doctrins	230
Athanasian creed		238	Auricular confession	ordinances	265
Atheism	apologetics	239	Aurora borealis		523
	natural theol.	211	Australasia	geology	559.3
Atheists' lives		922		history	993
Atheneum libraries		027		religious history	279.3
Athens	ancient history	938		travel	919.3
	modern history	993.5	Australia	botany	581.9
	travel	914.95		geology	559.4
Athletic clubs		613.7		history	994
	sports	796		religious history	279.4
	hygiene	613.7		statistics	319
	school hygiene	371		travel	919.4
Atlantic ocean, physical geografy		551	Austria	antiquities	913.4
	travel	910		botany	581.9
	telegraf sociology	384		geology	554.3
	useful arts	654		history	943.6
Atlantis	antiquities	913.39		religious history	274.3
	mythology	292		statistics	314
	original home of man	572		travel	914.36
Atlases, maps, etc.		912	Authenticity of scripture	Bible	220.1
	celestial astron.	524	Author bibliografies, general		011
	school furniture	371		individual	012

Topics in black-faced type are subdivided in tables.

Author catalogs bibliografy	018	Baking powder chem. techn.	664
Authority church and ministerial	262	adulterations	614.3
ethics	171	Balance machines	531
Authors and publishers	655	metrology	389
anon. bibliografy	014	of power political science	320
bibliografy of individ.	012	trade commerce	382
special classes	013	Balances, chemical	542
lives	928	Baldness dermatology	616
rights of copyright	655	Balearic Islands history	946
law	347	Balize history	972.8
wages	655	travel	917.28
Authorship literary methods	029	Ball playing amusements	797
Auto da fe Spanish inquisition	272	school hygiene	371
Autobiografy	920	Ballads Danish poetry	839
Autocracy form of state	321	English literature	821
Autografs book rarities	091	song books	398
Automata, mechanical	791	vocal music	784
metaphysics	127	Ballet amusements	792
Autotypes	773	ethics	175
Avalanches physical geology	551	Ballistics military engineering	623
Average probabilities	519	Ballooning	533
Avesta, Zend language	491	military	623
literature	891	Ballot	324
religion	295	Balls dancing	793
Avignon, council of, religious history	270	ethics	175
Avoirdupois weights metrology	389	projectils	623
Axle physics	531	Baltimore history	975.2
Azoic rocks stratigrafic geology	551	travel	917.52
Aztec architecture	722	Baluchistan geology	555.8
history	972	history	958
language	497	religious history	275.8
Babylon ancient history	935	travel	915.8
architecture	722	Balustrades architectural design	729
language cuneiform	492	Bampton lectures	239
religion	299	Bananas agriculture	634
Baccalaureate sermons	252	Banditti biografy	923
colleges	378	law	343
Bacchanalia social customs	394	Banishment criminal law	343
Bacchus mythology	292	Banjo	787
Bachelors celibacy	176	Bank note engraving	768
Backgammon games	795	notes money	332
ethics	175	Bankers' lives	923
Baconian philosophy	192	Banking	332
empiricism	144	Bankruptcy	347
Bacteria botany	589	Banks and banking law	347
theory of diseases	616	architecture	725
fermentation	663	cooperativ cooperation	334
Bactrian, Old language	491	political economy	332
Badges heraldry	929.8	savings banks and banking	332
Bagatel amusements	794	Banners heraldry	929.9
Bagpipe	788	sacred ornaments	247
Bahamas history	972.9	Banquets social customs	394
travel	917.29	Banting dietetics	613
Bail criminal law	343	Baptism sacrament	265
Baking cookery	641	Baptismal fonts sacred furniture	247

Topics in black-faced type are subdivided in tables.

Baptismal regeneration salvation	234	Bas-relief sculpture	736
Baptisms registers of	929	Bass clarinet	788
Baptistery sacred furniture	247	horn wind instruments	788
Baptists	286	Bastardy law	347
lives	922	Bastile French history	944
Bar legal	340	prisons	365
biography	923	Bath, order of the heraldry	929.7
association	347	Bathing customs	391
Bar-keepers' manuals chem. tech.	663	Baths architecture	725
Barbarians, antiquities see country		hygiene	613
N. American Indians	970.1	practical chemistry	542
prehistoric archeology	571	therapeutics	615
S. American Indians	980	Batrachia paleontology	567
war customs	399	zoology	597
Barbarism vs church	261	Bats	599
Barbarisms English language	428	Battalion drill, military tactics	356
Barbary States history	961	Batteries, electric	537
Barbd wire manufacture	672	military engineering	623
Barbers	391	Battering ram customs of war	399
Bards and minstrels English lit.	821	Battle paintings	756
French "	841	wager of legal antiquities	340
German "	831	Battledoor outdoor sports	796
Italian "	851	Battles, see history of special countries	
Provençal "	849	land military science	355
Spanish "	861	naval "	359
Barebones parliament English hist.	942.06	Bavaria history	943
Barley agriculture	633	travel	914.3
brewing	663	Bay windows architectural design	729
Barns architecture	728	Bayeux tapestry art needlework	746
Barometer pneumatics	533	Bayonet drill military sci.	356
Barometric leveling geodesy	526	weapons	399
Barometry meteorology	551	Beaches, formation of	551
Baronage heraldry	929.7	Beacons navigation	656
Baronetage "	929.7	river engineering	627
Barracks architecture	725	Beads archeology	571
Barrel-organs music	789	devotional	247
Barricade military engineering	623	Beams building	694
Barrows prehist. arch.	571	Bear-baiting customs	394
Bars harbor engineering	627	Beards "	391
Barter commerce	380	Beasts zoology	599
Bartholomew fair public customs	394	of burden domestic animals	636
St, religious persecution	272	Beatitudes Gospels	226
Base ball amusements	797	Beauties, selections, Eng. lit.	828
measuring geodesy	526	Beauty esthetics	701
Bases theoretic chemistry	541	personal esthetics	701
walls	721	Beaux social ethics	177
Bashfulness ethics	179	Beaver animals	599
Basilica architecture	726	Bechuanaland	968
Roman antiquities	913.37	Bed wagon aid to injured	614.8
Basilisk legends	398	Bedding furniture	645
zoology	598.1	Bedouins Arabian history	953
Basins physical geography	551	travel among	915.3
Basket work, prehistoric	571	Beds and bedding hygiene	613
Basle history	949.4	Bee-keeping	638
travel	914.94	Beef cure therapeutics	615

Topics in black-faced type are subdivided in tables.

Beef food	641	Berlin	history	943.1
production domes. animals	636	travel	914.31	
Beer	614.3	congress, international law	341	
adulterations	543	decree " "	341	
analysis, chem.	178	Bermudas	history	972.9
drinking ethics	663	Bernardines	monastic orders	271
manufacture	595	Berne	history	949.4
Bees	664	travel	914.94	
Beet sugar	595	Bessel's functions	517	
Beetles	635	Bessemer process	metallurgy	669
Beets	177	Best reading	028	
Beggars	339	Beton	artificial stone	666
pauperism	177	construction masonry	693	
Behavior	343	Betrothal	customs	392
Behheading	917.98	Betterments	law	347
Behring's straits	111	Betting	ethics	175
Being, nature of	229	Beverages	adulterations	614.3
Bel and the dragon	913.4	alcoholic, hygiene	613	
Belgium	581.9	hygiene	613	
antiquities	554.9	manufacture	663	
botany	949.3	temperance	178	
geology	274.9	Bézique	amusements	795
history	914.93	Bezoar stones	medicin	615
religious history	591.9	Bhagavat Gita	Sanskrit literature	891
travel	234	Bible		
zoology	121	aids to study	220	
Belief		and science apologetics	239	
salvation		antiquities	220.9	
theory of knowledge		Jewish	913.33	
Bell, book and candle	262	archeology	220.9	
church disci-	789	biograpy	220.9	
plin	371	canon	220.1	
Bell-ringing	615	chapter and verse division	220.1	
Bell system	800	chronology	220.9	
Belladonna	341	classes Sunday schools	268	
materia medica	627	codices	220.4	
Belles-lettres	673	commentaries	220.7	
Belligerents, rights of	789	concordances	220.2	
inter. law	654	criticism	220.6	
Bells	621	cyclopedias	220.3	
diving hydraulic eng.	923	dictionaries	220.3	
manufacture	271	evidences	220.1	
music	264	exegesis	220.6	
signals	923	geograpy ancient geograpy	911	
Belting	271	Biblical	220.9	
mechan. eng.	264	hermeneutics	220.6	
Bench and bar	923	history Biblical	220.9	
biograpy	271	Jewish history	933	
Benedictine monks	264	in public schools	education	377
Benediction	923	inspiration	220.1	
Benefactois' lives	177	legends of	398	
Beneficence	234	manuscripts	220.4	
ethics	340	parallels Gospels	226	
Benefices, church	368	patriarchs	220.9	
clerical support	177	polyglots	220.5	
Benefit of clergy	361			
legal antiquities	256			
societies insurance	829			
Benevolence	347			
ethics	916.1			
Benevolent institutions	948.3			
societies	914.83			
parish work				
Beowulf				
Anglo Saxon poetry				
Bequests				
law				
Berbers				
description				
Bergen, Norway				
history				
travel				

Topics in black-faced type are subdivided in tables.

Bible revision, English	220.5	Birthday customs	392
science in	220.8	Births	registers of 929
societies	206	statistics	312
Bibliographies, general	011	Bishops	ecclesiastical polity 262
Bibliographers' lives	920	lives of	922
Bibliography	010	Bismuth	inorganic chemistry 546
national	015	Bison	zoology 599
of individual authors	012	Bitumen	economic geology 553
spec. classes of "	013	Bituminous coal	" " 553
forms	014	Bivalves	paleontology 564
subjects	016	zoology	594
Bibliomania	bibliography 010	Black-art	magic 133
Bicycle	796	Forest, Germany	travel 914.3
Bigamy	ethics 173	death	plague 614
law	343	hills, Dakota	travel 917.83
Bigotry	ethics 179	hole, Calcutta	954
Bilious fever	diseases 616	sea	travel 914.7
Bill of exchange	banks and banking 332	Blacking	chemical technology 667
law	347	Blackmail	law 343
rights	English 342	Blacksmithing	682
Billiards	ethics 175	Blasfemy	ethics 179
game	794	law	343
Billon	coins and coinage 332	Blast furnace	669
Bills and notes, law	347	Blasting	explosivs 662
of mortality statistics	312	mining engineering	622
sale	law 347	Blazonry	heraldry 929.8
Bimana	mammals 599	Bleaching	667
Bimetalism	coinage 332	Blights	agriculture 632
Binary stars	astronomy 523	Blind	asylums 362
Binding, book	library economy 025	education of	371
mechanic trades	686	Blindness	617
rare	095	Blizzards	meteorology 551
Binocular vision	physiologic optics 535	Block books	092
Binomial theorem	algebra 512	Blockade	war 341
Biogenesis	zoology 591	Blood	physiology 612
Biographic	sermons 920	poisoning diseases	616
homiletics	252	vessels	anatomy 611
Biography	920	Bloomer costume	391
miscellaneous	920	Blowing engine	621
of gipsies	397	Blowpiping	apparatus 542
Indians	970.2	mineralogy	549
slaves	326	qualitativ analysis	544
scriptural	220.9	Blue books	lists of officers 351
Biology	570	parliamentary	328
Bioplasm	576	United States	328
Birds	598	glass	therapeutics 615
cage	domestic pets 636	laws, Connecticut	345
eggs	oology 598	prints	photografy 771
flight of	migration 591	Blunders	English language 428
nests of	zoology 598	etiquet	395
paleontology	568	Board of health	city gov't 352
Birth customs	392	medicin	614
marks	617	sanitary engineer'g	628
obstetrics	618	of trade	reports commerce 381
rates	public health 614	Boarding schools	education 373

Topics in black-faced type are subdivided in tables.

Boards	timber	674	Bones	physiology	612
Boat building		623		skeleton of animal	591
racing	ethics	175	Bonn conference	religious history	284
	school hygiene	371	Bonnets	costume	391
Boating	amusements	797		toilet	646
Boats, life	life saving service	656	Book auctions		655
	ship building	699	binding	library	025
Bodily strength	athletics	613.7		rare	095
Bodleian library		027		trade	686
Body and mind		130	catalogs, author		018
care of	hygiene	613	clast		017
school hygiene		371	dictionary		019
measurements of		573	publishers' bibliog.		015
natural and spiritual, dogmatics		233	subject		017
symmetry of	art anatomy	743	clubs	self-culture	374
training of	hygiene	613.7	collecting		025
weight of	anthropometry	573	holders	office equipment	651
Boers	history	968	illustration	inserted plates	096
Bog iron ore		553		typography	655
Bohemia	history	943.7	making	typography	655
	travel	914.3	ownership	rarities	097
Bohemian brethren	sects	284	plates		097
language		491	rarities		090
literature		891	trade	history	655
Bohemianism	customs	394	worm	library economy	025
Bohlen lectures		239	Book of common prayer, episco.		264
Boilers	steam engineering	621	Bookbuying	lib. administration	025
	insurance	368	Bookkeeping, accounts		657
Boiling	heat	536	library		025
points	chemistry	541	Books and reading, professorships of		028
Boils	diseases	616	bibliography		010
Bokhara	history	958	classification of	lib. econ.	025
Bolivia	geology	558.4	commonplace	" "	029
	history	984	condemned to be burned		098
	religious history	278.4	enemies of	library economy	025
	travel	918.4	guides to selection of, lib. econ.		028
Bollandists	monastic orders	271	library economy		020
Bolting	political parties	329	lists of best	library economy	028
Bolts	machine tools	621	of prints		769
Bombs	military engineer'g	623	preservation of, library econ.		025
dynamite	chem. technology	662	privately printed		094
Bonaparte, N.,	French hist.	944	prohibited		098
Bondage	slavery	326	reading and aids		028
Bonds and stocks		332	restricted	library economy	024
civil trials		347	sizes of	" "	025
criminal law		343	tariff on	" "	025
finance		336	Booksellers' catalogs, author		018
insurance of		368	clast		017
Bone caves	prehistoric archeology	571	dictionary		019
implements, archeology		571	lives	biography	920
Bones	descriptiv anatomy	591	Bookselling	publishing	655
	diseases of	616	Boomerang	customs of war	399
	human anatomy	611	Bootmaking		685
	musical instruments	789	Booty	law	341
	paleontology	566	Bordeaux	history	944

Topics in black-faced type are subdivided in tables.

Bordeaux	travel	914.4	Brass instruments	music	788
Border ballads, Scottish	Eng. poet.	821	manufacture		673
ruffians, Kansas	history	978.1	Brasses, monumental	ecclesiology	247
Bores	social ethics	177	sculpture		739
Borneo	history	991	Bravery	ethics	179
	travel	919.1	Brazil	botany	581.9
Boron	inorganic chemistry	546 ^a		geology	558.1
Borough	local gov't	352		history	981
Bosnia	history	943.9		religious history	278.1
Bosphorus	travel	914.96		statistics	318
Boston massacre	U. S. history	973.3		travel	918.1
Botanic chemistry		581	Breach of promise	law	347
gardens	architecture	727	Bread	adulterations	614.3
museums	botany	580		cookery	641
Botanists' lives	biography	925		food	641
Botany		580	Breadstuffs	production	338
agricultural		630	Breakwaters	harbor engineering	627
fossil		561	Breast wheels	engineering	621
geografic distribution		581.9	Breasts	diseases of women	618
medical		615	Breathing	animals	591
structural		581		man	612
systematic		580	Breathings	Greek language	481
Bottom of ocean	physical geography	551	Breech-loading	guns	683
	zoology	591.9	Breeding	agriculture	636
Boulders, drift		551		animals	951
Boundaries	law	347	Brehon laws	Irish law	349
	national		Brethren, United	sects	284
	foreign rel.	327	Breton language		491
	intern. law	341	literature		891
Bounties	army	355	Breviaries		264
	protection	337	Brewd beverages	adulterations	614.3
	U. S. army	353		chem. technol.	663
"Bounty"	mutiny, 1789	Pitcairn's	Breweries	architecture	725
	island	997	Brewing		663
Bourbons	French history	944		air pollution	614
Bourse	stock exchange	332	Bribery	criminal law	343
Bowls	amusements	796	Bric-a-brac		739
Boxing	athletics	796	Brick clays	economic geology	553
Boycotting	laboring classes	331		construction masonry	693
Boyle lectures, apologetics		239	Bricks	building material	691
Boys' religious societies		267		manufacture	666
Brachiopoda	paleontology	564.	Bridal customs		392
	zoology	594	Bridge-building		624
Brachygraphy, shorthand		653	Bridges	administration	351
Brahmanism		294		engineering	624
Brahmo Somaj, Indian religion		299		local government	352
Brain	anatomy	611		military engineering	623
	diseases of	616	Bridgewater treatises		215
	mental derangements	132	Brief longhand	abbreviations	653
	mental physiology	131	Brigandage	criminal law	343
	physiology	612	Brigands	law	343
Brakes	railroad engineering	625	Bright's disease of the kidneys		616
Branch libraries	library economy	022	Briticisms	philology	427
Brandy	manufacture	663	British America	history	971
	stimulant	615		travel	917.1
	temperance	178			

Topics in black-faced type are subdivided in tables.

British army	354	Buddhism	294
barrows prehist. arch.	571	Buddhist architecture	722
Burmah history	959	Budget English finance	336
travel	915.9	Buenos Ayres, history	982
colonies polit. sci.	325	travel	918.2
Columbia history	971	Buffalo zoology	599
travel	917.1	Bugle wind instruments	788
constitution	342	Bugs rhynchota	595
empire history	942	Buhlwork	749
travel	914.2	Building	690
Guiana history	988	architecture	720
travel	918.8	associations, cooperativ	334
India history	954	loan institutes	332
travel	915.4	contracts	692
museum	062	laws building	692
library	027	protection of life	614.8
navy	354	stones econ. geol.	553
philosophers	192	Buildings, inspection of	614.8
statutes	346	library admin.	025
Britons history	942	architecture	727
Brittany, France history	944	economy	022
travel	914.4	out architecture	728
Broad church Anglican church	283	public "	725
Broadsword exercise, military science	356	local government	352
Brokerage law	347	Y. M. C. A.	267
Bromids hypnotics	615	architecture	726
Bromin inorganic chemistry	546	Bulgaria history	949.7
Bronchi anatomy	611	language	491
Bronchitis diseases	616	travel	914.97
Bronze age pre-hist. archeology	571	Bull fights amusements	791
manufactures	673	ethics	175
Bronzes	739	Bulletins library admin.	025
Brook farm socialism	335	publications	027
Brooklyn, N. Y. history	974.7	Bullion coins and coinage	332
travel	917.47	Bulls and bears stock exchange	332
Brooms domestic economy	648	Irish English humor	827
Brothels ethics	176	papal eccles. polity	262
Brotherhoods monks	271	Roman church	282
parish work	255	Bundesrat German empire	354
Brown coal economic geology	553	Bundling customs	392
Brownists congregationalists	285	Bunker hill monument	718
Brumaire French history	944	history	973.3
Brunswick, house of, English history	942.08	Bunsen pump pneumatics	533
Brussels history	949.3	Buoys harbor engineering	627
travel	914.93	protection of life	614.8
Brutes, immortality of zoology	591	Bureaucracy administration	351
Bryofyta botany	588	Bureaus cabinet making	684
Bryology "	588	Burglar alarms signals	654
Bryozoa molluscoidea	594	Burglary criminal law	343
Bubble, Mississippi French finance	336	Burial cemeteries	719
South sea stocks "	332	church rituals	265
Buccaneers adventures, etc.	910	customs	393
law	343	public health	614
Buchanan J. presidency of, hist.	973.6	societies cooperation	334
Bucolic poetry, English poetry	821	Burking criminal law	343

Topics in black-faced type are subdivided in tables.

Burlesque	English literature	827	Calculus	mathematics	517
Burmah	history	959		of direction	analyt. geom. 516
Burmese architecture		722	Caledonia	history	941
Burning glass	optics	535	Calendar		529
	the dead	customs 393		ecclesiastical, Anglican	264
Burnings	customs of war	399	Calendering	paper manufacture	676
	student life	371		textil fabrics	677
Burns and scalds	surgery	617	Calico	manufactures	677
Burying grounds	cemeteries	719		printing, chemical technology	667
	public health	614	California, U. S.	history	979.4
Business arithmetics		511		travel	917.94
	buildings	architecture 725	Califs	Mohammedanism	297
	colleges	650	Caligrafs	writing machines	652
	commerce	sociology 380	Caligrafy	writing	652
	cooperation	334		manuscripts	091
	ethics	174	Calisthenics	hygiene	613.7
	manuals	658		school hygiene	371
	methods	658	Calmucks	history	950
Butchers		689	Caloric	engines	621
Butter	adulterations	614.3		physics	536
	artificial	chem. technology 664	Calorimeter		536
	dairy	637	Calvinism	sects	284
Butterflies		595		vs free will	dogmatics 234
Buttermilk	adulterations	614.3	Calvinistic confession		238
Buttons	manufacture	679	Calvinists' lives		922
Byzantine architecture		723	Cambistry	money	332
	art	709		metrology	389
	ecclesiology	246	Cambodian architecture		722
	empire	history 945.5	Cambria, Wales	history	942.9
Cab	manufactures	684	Cambrian age	geology	551
Cabalistic art		133		confession	238
Cabinet council, English		354	Camel	domestic animals	636
	making	684		zoology	599
	officers, U. S. gov't	353	Cameos		736
	work	joinery 694	Camera	photografy	771
Cable roads	city transit	388		lucida	microscopy 578
	road	engineering 625		optics	535
	telegrafic	sociology 384		obscura	" 535
		useful arts 654		photografy	771
Cables	manufactures	677	Cameralistic science		336
Cabs	city transit	388	Cameronians	sects	285
Cadets	military schools	355	Camfor	therapeutics	615
Cadmium	inorganic chemistry	546	Camp life	hygiene	613
Cadmon	Anglo-Saxon poetry	829		meetings	269
Caesar	Latin literature	878	Campaigns	political	329
Caesars	lives	923	Campbellism	sects	289
	Roman	history 937	Camping out		796
Caesium	inorganic chemistry	546	Camps, disinfect.	cont. disease	614
Cafés	architecture	725		hygiene	613
Cage birds	domestic pets	636	Canada	botany	581.9
Cairns	prehistoric archeology	571		geology	557.1
Calcium	inorganic chemistry	546		history	971
	light	chemical technology 665		religious history	277.1
Calculators	mathematics	510		statistics	317
Calculus	diseases	616		travel	917.

Topics in black-faced type are subdivided in tables.

Canal engineering	626	Carbon	organic chem.	547
transit sociology	386	process photography	773	
Canary birds	care of	Carbonari	secret societies	366
	zoology	Carbonated waters	hygiene	613
isles	history	Carbonic acid, toxicology		615
Candles	chemical technology	Carboniferous	age geology	551
Candor	ethics	fossils		560
Candy	adulterations	Card catalog	library admin.	025
	making	playing	amusements	795
Cane, sugar	agriculture		ethics	175
	botany	system	literary methods	029
Cannel coal	economic geology	Cardiff giant	humbugs	133
Cannibalism	customs of war	Cardinals	ecclesiastical polity	262
Canning of fruits, meats, etc., chem.			lives	922
tech.	664		Roman church	282
Cannon	military engineering	Care of animals	animal hygiene	614
Canoes and canoeing	797		body, hygiene	613
Canon	law		school hygiene	371
	music		person customs	391
	of Scripture	Caribbean sea	travel	917.29
Canons, ecclesiastical polity	262	Caribbee islands	history	972.9
Cañons	rivers	Caricature	drawing	741
	of Colorado river descr.	Carillon	music	789
Cantata	dramatic music	Carlovingian cycle	legend	398
	sacred music	Carmelites	monks	271
Canticles	Bible	Carnivora	mammals	599
Canvas roofing building	695	Carnivorous plants	botany	581
Canvassing	bookselling	Carol	sacred music	783
Caoutchouc	organic chemistry	Carpentry		694
	rubber manufacture	Carpets	designing	745
Capacity for knowing	mental facul.		domestic economy	645
Cape Breton	history		manufacture	677
	travel	Carposporeae, algae and fungi		589
Verd islands	history	Carriage making		684
	travel	Carrier pigeons	domestic birds	636
Capillary attraction in plants		Carriers	law	347
	of liquids	Cars	building	699
Capital and labor			horse engineering	625
punishment	law		railroad engineering	625
Capitalists' lives	923	Cartesianism	philosophic systems	144
Capitation-tax	336	Carthaginian	architecture	722
Capitols	architecture	Carthusian monks		271
Caps, percussion, chemical technology	662	Cartography	maps, atlases, etc.	912
Captivities among the Indians	970.3	Cartoons		741
Captivity	prison disciplin	Cartridges	military science	623
Captivs	international law	Carving	dining	642
	war customs		sculpture	736
Captures	international law	Casements	fortifications	623
Capuchins	religious history	Cases	English syntax	425
Car-building	699	law	American	345
Caravans	transportation		English	346
Carbines	military engin'g	Cashmere	history	954
Carbolic acid	materia medica		travel	915.4
	disinfectant pub. health	Caspian Sea	travel	914.7
Carbon	inorganic chemistry	Castanets	musical instr.	789

Topics in black-faced type are subdivided in tables.

Caste		177	Cause and effect	philosophy	122	
Casting	foundries	671	Causes final	"	124	
Castles	architecture	728		of contagious diseases	614	
Castor and Pollux	mythology	292	Cavalry		357	
Castrametation	military science	355	Cavatina	music	784	
Casts		730	Cave men	prehistoric archeology	571	
Casualties, protec. from	pub. health	614.8		temples	Indian architecture	722
Casuistry	ethics	171	Caves	geology	551	
Catacomb symbols	ecclesiology	246			natural dwellings	571
Catacombs	antiquities	913.37	Ceilings	architecture	721	
	cemeteries	719			arch. decoration	729
	symbols	246	Celebes	history	991	
Catalan language		449	Celestial dynamics		521	
literature		849		sphere	522	
Catalepsy		132	Celibacy	ethics	176	
Catalog dep't	library economy	025		hygiene	613	
Catalogers	library staff	023		of clergy	254	
Cataloging		025	Cells	biology	576	
Catalogs	author	018		histology	botany	581
	book publishers'	015			zoology	591
	college	378	Cellular confinement	prisons	365	
	dictionary	019		punishments	343	
	of individual authors	012		tissue, botany	581	
	countries	015	Celluloid	manufactures	679	
	subjects	016	Cellulose	botany	581	
	star maps	524	Celtic antiquities		913.36	
	stars	523		Druids, religion	299	
	subject	017		language	491	
	universal	011	Celts	ancient history	936	
Cataracts	eye diseases	617		stone	archeology	571
	physical geography	551	Cements	building material	691	
Catarrh	diseases	616		manufacture	666	
Catch	vocal music	784		mineral, econ. geol.	553	
Catechisms		238	Cemeteries		719	
Caterer	domestic economy	641		earth burial	393	
Cathartics	therapeutics	615		effect on health	614	
Cathay	history	951		public health	614	
	travel	915.1	Cemetery chapels	architecture	726	
Cathedral canons	eccles. polity	262	Censors	sacred vessels	247	
	services	musical	Censorship of the press		323	
	system	ecclesiastical	Censuses	statistics	310	
Cathedrals	architecture	726	Cent-gram-second system	physics	530	
Catholic apostolic church		289	Centenarians	physiology	612	
	church	282	Centennial celebrations	see subject		
	epistles	Bible		exhibition, United States	606	
Catholicism and protestantism		282	Center of gravity	physics	531	
Catholics' lives	biography	922	Centipedes	zoology	595	
Cats	domestic animals	636	Central Africa, North	geology	556.6	
	diseases of	medicine		history	966	
Cattle		636			religious hist.	276.6
	diseases	contag. hygiene			travel	916.6
		vet. med.		South	geology	556.7
Caucasia	history	947			history	967
Caucuses		324			religious hist.	276.7
Causation	philosophy	122			travel	916.7

Topics in black-faced type are subdivided in tables.

Central America	geology	557.2	Championship ethics	175
	history	972.8	school hygiene	371
	religious hist.	277.2	Champlain, lake	history 974.7
	travel	917.23		travel 917.47
Asia	history	958	Chance, games of amusements	795
	travel	915.8	ethics	175
Pacific railroad		385	natural theology	214
park		711	probabilities	519
Centralization, administrativ, foreign			vs cause metaphysics	122
	countries	354	Chancellors' lives	923
	U. S. gov.	353	Chancels ecclesiology	246
	political science	320	Chancery law	347
Centrifugal blowers	engineering	621	reports American law	345
	force physics	531	English law	346
	pumps engineering	621	Chances mathematics	519
Centripetal force	physics	531	Chandeliers	749
Cephalopoda	zoology	594	Change of air, hygiene	613
Ceramic productions	building	691	seasons	525
Ceramics	fine arts	738	Changes of blood respiration	612
	manufacture	666	Chant, Gregorian ecclesiology	246
Cereals	adulterations	614.3	Chants sacred music	783
	agriculture	633	Chapbooks	398
	botany	584	Chapels architecture	726
	trade in agric. products	338	Chaplains ministry	262
Cerebral poisons	therapeutics	615	Chapter-and-verse division Bible	220.1
Cerebration, unconscious		153	Character ethics	170
Cerebrospinal diseases		616	formation of	374
Ceremonies	customs	394	of reading	028
	religious ritual	264	Charades	793
Cerium	inorganic chemistry	546	Charcoal chemical technology	662
Certainty	knowledge	121	drawing	741
Certificates of	teachers	371	fuel	644
Cesium	inorganic chemistry	546	Charging systems libraries	025
Cetacea	zoology	599	Charitable associations	361
Ceylon	history	954	institutions	361
	travel	915.4	Charities and corrections	360
Chalcography, engraving		762	Charity ethics	177
Chaldea	ancient history	935	political economy	361
Chaldean architecture		722	schools	377
	philosophy	181	sisters of	271
	religion	299	Charlatanry quackery	133
Chaldee	language	492	Charlemagne, age of, European hist.	940
Chalices	sacred vessels	247	legends	398
Chalk	lithology	552	Charles 1	English history 942.06
	beds economic geology	553	2	" " 942.06
Challenger expedition, 1873-76		508.3	3	German history 943
Challenges	duels	394		Netherlands history 949.2
Chalukyan architecture		722		Spanish " 946
Chamber music		785	Charleston, S. C.	history 975.7
Chambers of commerce	reports	381		travel 917.57
Chameleon	zoology	598	Charters of cities	352
Champagne	chemical technology	663	Chartism Eng. constitut. history	342
	France, history	944	Chartists political party	329
Championship games	amuse-		Chartography maps, atlases, etc.	912
ments		790	Charts astronomy	523

Topics in black-faced type are subdivided in tables.

Charts	geografy	912	Chief justices' lives	923
	history	902	Chilblains	skin disorders 616
	maps	912	Child labor	political economy 331
	of special topic see subject		Childbirth	obstetrics 618
Chase	hunting	799	Children, asylums for	sociology 362
Chasing	sculpture	736		care of 649
Chastity	ethics	176		cruelty to ethics 179
Chateaux	architecture	728		diseases of 618
Chattels	law	347		duties of ethics 173
Chautauqua	self-education	374		education of 372
Cheating	ethics	174		games of out-door 796
	student life	371		hospitals for 362
Checkers		794		moral care for 377
Checks	banks	332	Children's crusade	European history 940
	commercial law	347	Chili	botany 581.9
Cheers	college	371		geology 558.3
Cheese	adulterations	614.3		history 983
	dairy	637		religious history 278.3
Chelonia	reptils	598.1		statistics 318
Chemical affinity		541		travel 918.3
	analysis	543	Chiliasm	millennium 236
	apparatus	542	Chimes of bells	music 789
	equations	541	Chimneys	heating 697
	fire extinguishers	614.8		masonry 693
	industries	660	China	antiquities 913.31
	jurisprudence law	340		botany 581.9
	laboratories	542		geology 555.1
	manipulation	542		history, ancient 931
	manufacture	661		modern 951
	nomenclature	541		religion, Christian 275.1
	physics	541		statistics 315
	physiology	591		travel 915.1
	technology	660		ware fine arts 738
Chemistry		540		useful arts 666
	agricultural	631	Chinese architecture	722
	analytic	543		art 709
	and natural religion	215		immigration 325
	applied to the arts	660		labor polit. economy 331
	economic zoology	591		language 495
	industrial chem. tech.	660		literature 895
	inorganic	546		philosophy 181
	legal law	340		religion 299
	medical materia med.	615	Chirography	penmanship 652
	of poisons chem. analysis	543	Chiromancy	palmistry 133
		615	Chiroptera	mammals 599
	toxicology	615	Chivalry	age of Europ. hist. 940
	organic	547		customs 394
	physiologic	612		temperance 178
	zoology	591	Chloral	therapeutics 615
Chemists' lives	biografy	925	Chlorin	inorganic chemistry 546
Chess	amusements	794	Chloroform	therapeutics 615
	ethics	175	Chlorofyll	botany 581
Chicago, Ill.	history	977.3	Chlorosis	diseases 616
	travel	917.73	Chocolate	adulterations 614.3
Chicken-pox	diseases	616		manufactures 663
	public health	614		

Topics in black-faced type are subdivided in tables.

Choctaw language	497	Chromometry colorimetry	545
literature	897	Chromosphere, sun	523
Choice, freedom of	159	Chronic diseases pathology	616
mental faculties		Chronicles Bible	222
metaphysics	123	history see special subject	
Choir music	783	Chronograf astronomy	522
Cholera diseases	616	Chronologies history	902
public health	614	Chronology astronomy	529
Choral service sacred music	783	Biblical Bible	220.9
Chorus " "	783	Chronometer astron. instr.	522
vocal "	784	longitude determ.	525
Chrestomathy English language	428	manufacture	681
Christ doctrinal theology	232	Church	260-289
lives	232	and clergy law	348
Christening baptism	265	education	377
customs	392	state eccl. polity	261
Christian apologetics	239	ethics	172
architecture eccles.	726	political science	322
medieval	723	Apostolic	281
art	247	architecture	726
associations	267	attendance	264
Brothers monks	271	authority	262
church	260-289	bells manufactures	673
doctrins	230	music	789
education	377	benefices clerical support	254
ethics	171	Christian	260-289
fathers relig. hist.	270	decoration, sacred orn.	247
fathers' works	281	disciplin eccles. polity	262
iconography	246	fathers	281
sculpt.	732	fellowship	265
institutions	260	festivals, worship	264
life personal religion	248	furniture	247
names	929	government	262
philosophy patristic	189	history	270-289
science therapeutics	615	membership ordinances	265
sects	280	music	783
socialism	335	needlework	247
union	280	of England	283
unions, young men's	267	Rome	282
Christiania, Norway history	948	Scotland presbyterian	285
travel	914.8	polity	262
Christianity evidences	239	primitiv	270
history	270-289	rates clerical support	254
Christians biography	922	religious history	270-289
Christiansand, Norway history	948.3	sacraments	265
travel	914.83	schools	377
Christmas customs	394	sects	280
festival sacred music	783	services public worship	264
Christology doctrinal theology	232	Slavonic language	491
Chromatic aberration optics	535	sociology	322
scale theory of music	781	unity	280
Chromatics optics	535	vestments	247
Chromatography	752	work	260
Chromium economic geology	553	yards. cemeteries	719
inorganic chem.	546	Churches architecture	726
Chromolithography	764		

Topics in black-faced type are subdivided in tables.

Churches	burials in	public health	614	Civil pensions	administration	351
	hygiene		613		procedure law	347
	unity of		261	service	administration	351
Cider	chemical	technology	663		municipal gov't	352
Cifer writing			652		officials, lives	923
Cilicia	ancient history		939		reform admin.	351
	modern	"	956		U. S. hist.	973.8
	travel		915.6	trials		347
Cincinnati, O.	history		977.1	war	ethics	172
	travel		917.71		slavery	326
Cincinnati	society of		369		U. S. history	973.7
Cinematics	mechanics		531	Civility	ethics	177
Cinerary urns, treatment of the dead			392	Civilization and the church		261
Circle	German local gov't		352		history	901
	sailing, great navig.		527		philosophy of	901
Circuit court reports, U. S.			345		primativ	571
Circulating libraries			027	Claims against governments		336
Circulation and blood, physiology			612		U. S. court of history	347
	in animals	zoology	591		reports	345
	plants	botany	581	Clairvoyance		134
	money		332	Clans	political science	321
	oceanic	ocean currents	551		Scottish history	941
Circulatory system	anatomy		611	Clarinet	wind instruments	788
Circumcision			392	Class feeling	ethics	177
Circumnavigations			910		meetings public worship	264
Circumstantial evidence	law		347		reunions colleges	378
Circuses	amusements		791		student customs	371
	ethics		175		system suffrage	324
Cistercian monks			271	Classes, school		371
Cisterns	rural water supply		628	Classical antiquities		913.38
Cités ouvrières, architecture			728		biography	920
Cities	administration		352		education	375
	ancient description		913.3		geography	912
	buried	"	913.3		literature, Greek	880
	free, German gov't		354		Latin	870
	growth of, administration		352		mythology	292
	health of		614		philology Greek lang.	480
	plans of		912		Latin "	470
	sanitation		628		schools, private, educ.	373
Citizens, duties of	ethics		172		public "	379
Citizenship	law		347	Classics	Greek literature	880
City governments, administration			352		Latin "	870
	halls	architecture	725	Classification of animals	zoology	590
	houses	"	728		books lib. econ.	025
	mortality	public health	614		chemistry	541
	transit	sociology	388		diseases medicin	616
Civil authority	local government		352		knowledge method-	
	engineering		620		ology	112
	government and the church		322		languages philology	401
		ethics	172		library	025
		relig.	261		philosophy	112
		polit. science	320		plants botany	580
	law		349		sciences nat. sci.	501
	liberty	political science	323	Clast catalogs	bibliography	017
	lists		351		lib. adm.	025

Topics in black-faced type are subdivided in tables.

Clavichord	musical instruments	786	Clouds	meteorology	551
Clay	chemical technology	666	Club foot	surgery	617
	petrography	552	houses	architecture	728
Clays, brick, fire, potters'	geology	553	libraries		027
Cleanliness	hygiene	613	Clubs, literary, education		374
Clearing house, banking		332	social		367
Cleavage	crystallography	548	Clusters and nebulae	stars	523
	geology	551	Cnidaria	zoology	593
Clemency	ethics	179	Coach building	carriage making	684
Clementines	apocrypha	229	Coaching	amusements	798
Cleopatra's needle	monuments	718	business		656
Clepsydra	chronology	529	Coal, economic geology		553
Cleptomania	derangements	132	fuel	chemical technology	662
Clergy, benefit of	legal antiquities	340	domestic economy		644
canon law		348	metallurgy		669
celibacy of	ethics	176	gas	domestic lights	644
pastoral theol.		254	heating		697
ethics		174	illuminating gas		665
holy orders		262	mineralogy		549
lives of		922	mining		622
pastoral work		250	oil	chemical tech.	665
Clerical support		254	domestic lights		644
taxes		336	economic geology		553
Cleveland, G.	presidency of	973.8	mineralogy		549
Cleveland, Ohio	history	977.1	tar colors	chemical technology	667
travel		917.71	products	" "	668
Cliff dwellings, prehistoric arch.		571	Coalescence		617
Climacterics	physiology	612	Coast changes, erosion		551
vital statistics		614	defense, military eng.		623
Climate, effects of	diseases	616	pilot		556
therapeutics		615	survey, U. S.	geodesy	526
hygiene		613	tides		525
influence on man		573	Coasting	sports	796
meteorology		551	Coats of arms, heraldry		929.8
seasons		525	Cobalt	inorganic chemistry	546
Climatology	contagious diseases	614	ores	economic geology	553
physical geography		551	Coca	hygiene	613
Climbers	birds	598	Cocain	therapeutics	615
Climbing plants	habits	581	Cochin China, French	history	959
Clinics	medical education	610	Cochineal	dyeing	667
Clippings	literary methods	029	Cock-fighting	sports	791
Clock, sidereal		522	ethics		175
Clock-making		681	Cocoa	adulterations	614.3
Clocks	chronology	529	manufacture		663
Cloisterd nuns		271	Cocoon	silkworms	638
Close communion	baptists	286	Cod fishery	fishing	639
sacrament		265	Code Napoleon	French law	349
Closet, earth	sanitary engineering	628	Codes, American law		345
water	air pollution	614	Codices	Bible mss	220.4
sanitary engineering		628	Codification of law	U. S. law	345
Cloth	manufactures	677	Coeducation		376
Clothes-making		687	of races		371
Clothing	domestic economy	646	Coelenterata	zoology	593
hygiene		613	Coffee	adulterations	614.3
of laboring classes		331	agriculture		633

Topics in black-faced type are subdivided in tables.

Coffee	botany	583	Collegiants	sects	284
	domestic economy	641	Collegiate education	women	376
	houses customs	394	Collieries	mining eng.	622
	hygiene	613	Collodian process	photografy	772
	stimulants	615	Colombia, So. Am.	geology	558.6
Coffer-dams	river engineering	627		history	986
Coffins	burial customs	393		religious hist.	278.6
	perishable pub. health	614		travel	918.6
Cog wheels	mech. eng.	621	Colonial history, U. S.		973.2
Cognition	metaphysics	126		law English statutes	346
Cohesion	physics	539		system, political science	325
Coils	electricity	537	Colonies	" "	325
Coinage	political economy	332	Colonization, African		325
Coins	numismatics	737		history of Africa	960
Coke	chemical technology	662		political science	325
	fuel, domestic econ.	644	Colonnades	architectural design	729
	metallurgy	669		walls	721
Cold baths	hygiene	613	Color blindness	eye diseases	617
	drinks "	613		in man natural hist. of man	573
	exposure to, protection of life	614.8		plants botany	581
	physics	536		of animals zoology	591
Colds	catarrh	616		optics	535
Colenso controversy	pentateuch	222		painting	752
Coleoptera		595		sense mental faculty	152
Colic	diseases	616		suffrage	324
Coliseum	Roman antiquities	913.37	Colorado, U. S.,	history	978.8
Collected	biografy	920		travel	917.88
	sermons	252	Colord races	natural hist. of man	573
	travel	910	Colorimetric analysis	chemistry	545
	works, see subject		Coloring	dyeing	667
Collecting	biology	579		matters, org. chem.	547
	books library economy	025	Colors, artificial	chem. tech.	667
Collection of taxes	finance	336		ecclesiology	246
Collections	art galleries	708		manufacture of paints	667
	engravings	769		painting	752
	of poetry Eng. lit.	821		practical printing	655
	miscel.	808		use of literary methods	029
	photografas	779	Colosseum	Roman antiquities	913.37
	useful knowledge	602	Colossians	epistles	227
	vocal music	784	Colossus of Rhodes	monuments	718
	other topics, see subject		Colportage	parochial	259
Collectors' manuals, biology		579	Columbia, District of, U. S.,	history	975.3
College cheers		371		travel	917.53
	degrees	378	Columns, architectural constr.		721
	libraries	027		design	729
	regattas athletics	371		carpentry	694
	societies student life	371		sculpture	730
	songs	784	Combat, judicial	legal antiquities	340
	Y. M. C. A.	267	Combinations of capital, polit. econ.		331
Colleges	agricultural	630		labor, " "	331
	and universities	378	Combinatory analysis	algebra	512
	architecture	727	Combustibles, storage	pub. safety	614.8
	business	650	Combustion	chemistry	541
	for women	376		heat	536
	hygiene	613	Comedy	English drama	822

Topics in black-faced type are subdivided in tables.

Comets	523	Comparativ physiology zoology	591
maps, observations	524	religion	290
theory	521	theology dogmatics	230
Comic journals English literature	827	Compass magnetism	538
music dramatic	782	variations of, astron.	522
works English lit.	827	Compends, see subject	
Commanders' lives biography	923	Competition prices	338
Commemorativ sermons	252	wages	331
Commensalism zoology	591	Competitiv examinations, civil ser.	351
Commentaries, Bible	220.7	schools	371
law	347	musical festivals	784
Commerce, regulation of law	347	Complex variables calculus	517
sociology	380	Composers' lives	927
useful arts	650	Composition elementary English	428
Commercial agencies credit	332	music	781
arithmetics, mathematics	511	rhetoric	808
buildings, architecture	725	type-setting	655
law	347	with creditors law	347
morals ethics	174	Compression of gases physics	533
panics political econ.	332	Comprest air engines	621
traveling commerce	658	Compromise bill 1850 U. S. history	973.6
Commissions, building	692	ethics	171
Common carriers law	347	Compulsory education	379
law, American	345	insurance	331
British	346	vaccination, pub. health	614
right copyright	655	Compurgation, legal antiquities	340
treatises	347	Computation arithmetic	511
pleas, court of	347	Concept mental philosophy	153
Prayer Anglican ritual	264	Conception, immaculate Christology	232
schools	379	Concerts amusements	791
Commonplace-books lit. methods	029	Conchology	594
Commons, House of Eng. legis.	328	Conclave, papal eccles. polity	262
student life	371	Concord philosophy, Emerson	191
Commonwealth English history	942.06	Concordances Bible	220.2
Commonwealths, ideal polit. science	320	special, see subject	
Commune, French local gov't	352	Concordat eccles. polity	262
German "	352	internat. law	341
of 1871 French history	944	Concrete building material	691
political economy	335	construction building	693
Communication, sociology	380	pavements	625
useful arts	650	roofing	695
Communion, close baptists	286	Concretion geologic agent	551
holy sacrament	265	Concubinage sex customs	392
services, sacred music	783	Concussion injuries	617
Communism political economy	335	Condemd books book rarities	098
Community of land political econ.	333	Condensation action of heat	536
Compact ethics	174	vapor pneumatics	533
Companies associations	360	Condensers chemistry	542
joint stock law	347	electricity	537
Comparativ anatomy animals	591	steam engineering	621.1
plants	581	Condensing pump pneumatics	533
legislation	340	Condens milk	637
medicin	619	Condiments adulterations	614.3
mythology	291	chemical technology	664
philology	410	Conditional immortality	237

Topics in black-faced type are subdivided in tables.

Conduct of life ethics	170	Conscience, ethics	171
Conductivity of rocks geology	551	Consciousness philosophy	126
Conduits telegraf	654	Conscription military science	355
ventilation	697	Consecration	263
waterworks	628	sermons	252
Confectionery	641	Conservation of energy physics	531
adulterations	614.3	Conservatories, architecture	728
Confederate states, U. S. civ. war	973.7	music	780
Confederation, American colonies	973.3	plants	716
Conference meetings pub. worship	264	Consols English finance	336
Confession and absolution, sacrament	265	Consonants language	421
Augsburg	238	Conspiracies criminal law	343
auricular sacraments	265	Constables	352
Confessional Roman church	282	Constance, council of, 1414-8, Hussites	284
Confessions creeds	238	religious hist.	270
of faith ritual	264	Constantinople history	949.6
Confidence practices	174	travel	914.96
Confinement, punishment	343	Constellations astronomy	523
schools	371	Constitution and by-laws libr. econ.	023
solitary, criminal law	343	Constitutional conventions	342
prison disciplin	365	history	342
Confirmation sacraments	265	law	342
Conflagrations	614.8	monarchy, polit. sci.	321
Conflict of duties	171	Construction, architectural	721
laws, international law	341	carpentry	694
Conformity Anglican church	283	masonry	693
Confucianism religion	299	Consular reports	382
Confucius Chinese philosophy	181	systems international law	341
Congelation physics	536	Consuls	327
Congestion of the lungs diseases	616	Consumption lung diseases	616
Conglomerate lithology	552	Contagious diseases pathology	616
Congo, basin, travel	916.7	pub. health	614
Congregation, ecclesiastical polity	262	Contemplativ personal religion	248
Congregational church	285	sisterhoods	271
creed	238	theology	242
orders in ministry	262	Contested elections legis. bodies	328
singing	783	suffrage	324
Congregationalists' lives	922	Continental protestant sects	284
Congress of nations inter. law	341	travel	914
U. S.	328	Continents physical geography	551
Congressional debates, U. S.	328	Contraband of war internat. law	341
directories, U. S.	328	Contract system labor of convicts	331
documents, U. S.	328	prisons	365
Conic sections analytic geom.	516	Contractions shorthand	653
geometry	513	Contracts building	692
Conicoids analytic geometry	516	ethics	174
Coniferae botany	585	law	347
Conjunctions solar system	523	Controversial divinity	230
Conjuring sorcery	133	sermons	252
Connaught, Ireland history	941.7	Contusions surgery	617
travel	914.17	Conundrums amusements	793
Connecticut, U. S. history	974.6	English literature	828
travel	917.46	Convection heat	536
Conquest international law	341	Convention ecclesiastical polity	262
Norman, English hist.	942.02	1792-5, French hist.	944

Topics in black-faced type are subdivided in tables.

Conventional forms decoration	729	Cordilleras	description	918
Conventions political parties	329	Corinthians 1	epistles	227
Convents	271	2	"	227
architecture	726	Corn	agriculture	633
Conventual education of women	376	laws	337	
Conversation art of	374	trade polit. econ.	338	
ethics	177	Cornell university	378	
Conversion	248	Cornet	wind instruments	788
revivals	269	Cornices	architec. construc.	721
Conveyances law	347	design	729	
Convict labor political economy	331	Cornish language	491	
Convicts criminal law	343	Corns	dermatology	616
discharged, reformatory assoc.	364	Corona of sun	523	
Conviviality social customs	394	Coronation ceremonies	394	
Convocation ecclesiastical polity	262	Coroners local government	352	
Convulsions diseases	616	Corporal punishment school	371	
Cook-books domestic economy	641	Corporate industries	338	
Cookery	641	Corporation, city administration	352	
Cooking schools	641	Corporations		
Coolies	326	business	380	
Cooper Union, education	374	charitable	361	
Cooperage manufactures	674	law of	347	
Cooperation library economy	020	mining	622	
literary methods	029	municipal	352	
political economy	334	railroad	385	
Cooperativ building associations	334	Correction, houses of	364	
cataloging lib. admin.	025	Correlation of forces	531	
insurance	334	Correspondence college, self-educ.	374	
Copenhagen history	948.9	English literature	826	
travel	914.89	letter writing	808	
Copepoda articulates	595	logic	169	
Copernican theory astronomy	521	methods of teaching	374	
Copper coins money	332	natural theology	219	
engraving	762	Swedenborgian	289	
implements archeology	571	Corrosion	541	
inorganic chemistry	546	Cosmetics toilet	646	
manufacture	671	Cosmic dust astronomy	523	
metallurgy	669	philosophy metaphysics	113	
ores economic geology	553	time chronology	529	
roofing	695	Cosmogony metaphysics	113	
Coptic church sects	281	natural theology	213	
language	493	Cosmography phys. geog.	551	
literature	893	Cosmology metaphysics	113	
Copts history	962	natural theology	213	
Copy and proof literary methods	029	Cossacks Russian history	947	
books elementary education	372	Costume academic	378	
Copying processes writing	652	ecclesiastic	247	
Copyright international law	341	hygiene	613	
law	347	military	355	
publishing	655	Costumes	391	
Coquetry ethics	177	Cottages, architecture	728	
Coral reefs geology	551	Cotton agriculture	633	
Corals zoology	593	dyeing chem. technol.	667	
Cordage manufacture	677	manufactures	677	
Cordials liquors	663	trade agricultural products	338	

Topics in black-faced type are subdivided in tables.

Cottonworm pests	632	Credit institutes loan institutes	332
Coughs and colds pathology	616	institutions administration	351
Council, ecclesiastical polity	262	mobilier U. S. history	973.8
general French local gov't	352	political economy	332
history, religious	270	Credo sacred music	783
municipal, Fr. local gov't	352	Creeds Anglican ritual	264
of state	354	dogmatic theology	238
privy England	354	public worship	264
Counsel, Christian, practical religion	241	Cremation of the dead customs	393
Counterfeiting, banks and money	332	public health	614
law	343	Crematories " "	614
Counterpoint music	781	Creosoting building material	691
Country houses architecture	728	Cresting roofs	721
County government admin.	352	Crests heraldry	929.8
histories British	942	Cretaceous era geology	551
U. S.	974-979	fossils, paleontology	560
Courage ethics	179	Crevasses glaciers	551
Courses of reading reading and aids	028	Crewel work art needlework	746
Court etiquet customs	395	Cribbage games	795
fools "	394	Cribbing student life	371
Courtesy ethics	177	Cricket amusements	797
Courts administration	351	Crime and illiteracy public schools	379
authority of	340	law	343
ecclesiastic	262	Crimean war English history	942.08
law	347	Russian "	947
martial	344	Crimes and punishments law	343
Courtship ethics	177	Criminal classes reformatory assoc.	364
Cousins, marriage of law	347	law	343
Costumes French law	349	international	341
Covenant meetings public worship	264	trials, criminal law	343
Scotch, creeds	238	Criminals, education of	371
Covenanters religious history	274.1	juvenil	343
Scottish history	941	lives	923
Covenants religious creeds	238	Crinoidea zoology	593
Covetousness ethics	179	Crises, commercial, political economy	332
Cow-pox diseases	616	Criterion ethics	171
Cowardice ethics	179	Critical philosophy	142
Cows domestic animals	636	Criticism art	701
Crabs zoology	595	Biblical	220.7
Cramp diseases	616	dramatic	792
Cranberries	634	literary	801
Cranes and elevators mill work	621	musical	780
Craniology nat. hist. of man	573	rhetoric	808
Crannoges prehistoric dwellings	571	Croatian language	491
Craters seismology	551	literature	891
Crayfish zoology	595	Crocheting pottery	738
Crayon drawing	741	Crockery pottery	738
Cream adulterations	614.3	Crocodiles	598.1
Creation evolution	575	Crofton system prisons	365
metaphysics	113	Cromlechs prehistoric archeology	571
natural theology	213	Crop insurance	368
Creative power mental faculties	155	Crops agriculture	633
Creator doctrinal theology	231	Croquet	796
Credibility of the Scriptures	220.1	Cross Christian symbol	247
Credit and bonds insurance	368	legends concerning	398

Topics in black-faced type are subdivided in tables.

Croton aqueduct	waterworks	628	Cyclopedias, general	030
oil	vegetable poisons	615	special, see subject	
Croup	diseases	616	Cyfer writing	652
Crozier	sacred furniture	247	Cymbals	musical instruments 789
Crucibles	metallurgy	669	Cymric	languages 491
	practical chemistry	542		literature 891
Crucifix	sacred furniture	247	Cynic philosophy	183
Cruelty	ethics	179	Cypher writing	652
Cruisers	naval engineering	623	Cypriote architecture	722
Cruising	boating	797	Cyrenaic philosophy	183
Crusades	European history	940	Daguerreotype	772
	religious "	270	Dairy	637
Crust of the earth	geology	551	products	adulterations 614.3
Crustacea	paleontology	565	Dais	architec. accessories 729
	zoology	595	Dakota, U. S.	history 978.3
Cryptogamia		586		travel 917.83
Cryptographic art	religious art	246	Daltonism	eye diseases 617
Cryptograpy, secret writing		652	Damascus	ancient history 939
Crystallin limestone		552		travel 915.6
Crystallography		548	Damnation	doctrinal theology 237
Crystalloids		541	Dams	mill engineering 621
Cuba	history	972.9		mining " 622
	travel	917.29		river " 627
Cultivated plants	landscape gard.	716	Dance of death	emblems 249
Culture		301	Dances, war	customs 399
	and religion	261	Dancing	amusements 793
	self education	374		customs 394
	vocal	784		ethics 175
Cuneiform inscriptions		492	Danes	English history 942.01
Cupping	therapeutics	615	Dangerous classes	criminal law 343
Cups	archeology	571	Dangers and accidents, min. eng.	622
Curativ electricity	therapeutics	615		to workmen, political econ. 331
	gymnastics "	615	Daniel	Bible 224
Cures, miraculous	miracles	231	Danish England	English history 942.01
	therapeutics	615		language 439
Curiosa	books	099		literature 839
Curling	amusements	796	Danube river	travel 914.96
Currency	banking	332	Danubian provinces	history 949.6
Currents	phys. geog.	551		travel 914.96
Curriculum		375	Darien expedition	colonies 325
Curvature	geology	551		foreign trade 382
	of spine	diseases 616		isthmus history 986
Curvilinear motion	physics	531		ship canal engineering 626
Customs and duties	tarif	337	Darwinism	biology 575
	manners	390	Dates	chronology 902
	of primitiv man	571	Day of judgment	doctrinal theology 236
	war	399		schools secondary education 373
	student life	371		sidereal and solar 529
	taxation	336	Days of the year	chronology 529
Cutlery	manufacture	672		week, names of 529
Cuttle fish		594	Deacon, Deaconess	eccles. polity 262
Cyanogen	organic chemistry	547	Dead, disposal of the	pub. health 614
Cycling		796		ministry of sacraments 265
Cyclones	meteorology	551		sea description 915.6
Cyclopean remains	Greek architect.	722		transportation of, public health 614

Topics in black-faced type are subdivided in tables.

Dead, treatment of the, customs	393	Deer stalking sports	799
Deaf and dumb education of	371	zoology	599
institutions	362	Defacements of books, library econ.	024
Deafness diseases	617	laws	021
Death and resurrection	236	Defamation law	347
biology	577	Defense of religion apologetics	239
dance of, emblems	246	Defensiv operations, military eng.	623
penalty, criminal law	343	Deformities surgery	617
physiology	612	Degeneration evolution	575
rates public health	614	Degrees, academic	378
theology	236	medical public health	614
Deaths public health	614	Deism natural theology	211
registers of	929	Deists apologetics	239
registration of, official	352	Deity doctrinal theology	231
statistics	312	Delaware, U. S. history	975.1
Debates parliamentary	328	travel	917.51
rhetoric	808	Delineation of woman in art	396
Debating societies self-culture	374	literature	396
Debt ethics	174	Delirium tremens pathology	616
local government	352	Deliveries and branches lib. econ.	021
public pol. econ.	336	Deltas physical geograpy	551
Debtor and creditor law	347	Deluge Genesis	222
Debts, state and national	336	geologic age-ts	551
Decalog Bible	222	Delusions	133
Decay of rocks lithology	552	Demagogy politics	329
Decimal system arithmetic	511	Demand and supply prices	338
weights and measures	389	wages	331
Decision of character ethics	170	Demerara history	988
Decisions of juries math. prob.	519	travel	918.8
Declamation rhetoric	808	Democracy form of state	321
Declaration of independence, U. S.	973.3	social	335
Savoy creeds	238	Democratic party	329
war internat. law	341	Demograpy statistics	311
Declarations law	347	Demonetization	332
Decomposition, chemistry of	541	Demonology dogmatics	235
Decoration, architectural	729	witchcraft	133
day U. S. history	973.7	Dendrology botany	582
interior	747	Denmark antiquities	913.4
roof architecture	721	botany	581.9
Decorations heraldry	929.7	geology	554.8
Decorativ art	740	history	948.9
Decorum ethics	177	religious history	274.8
Decrees, ecclesiastical polity	262	statistics	314
Decretals ecclesiastical polity	262	travel	914.89
Roman catholic church	282	zoology	591.9
Dedication church ordinances	265	Denominations, Christian	280
sermons	252	Density gravity	531
Deduction mental faculties	153	of earth, astronomy	525
Deductiv logic	162	Dentistry	617
Deeds law	347	Dentists' registration, state control of	614
Deep boring mining eng.	622	Denudation geology	551
sea dredging scientific voyages	508.3	Deodorization of sewage	628
life botany	581.9	Deodorizers contagious diseases	614
zoology	591.9	Departments French local gov't	352
sounding scientific voyages	508.3	library admin.	025

Topics in black-faced type are subdivided in tables.

Departments	U. S. government	353	Development theory	evolution	575
Deposition	geology	551	Deviation of the compass, magnetism		538
Depositions	evidence	347	Devil, personal	theology	235
Depravity	natural theology	216		worship	290
	pessimism	149	Devils	dogmatics	235
	total, theology	233		witchcraft	133
Depressions, industrial	polit. econ.	338	Devonian age	geology	551
Derangement, mental		132		fossils, paleontology	560
Derivation of words, comp. philol.		412	Devotional exercises	prayer	264
	English language	422		sermons	252
	French	442		theology	240
	German	432	Dew	meteorology	551
	Greek	482	Diabolism	doctrin	235
	Italian	452	Dialectics	logic	160
	Latin	472	Dialects	English language	427
	Spanish	462		French	447
Dermatology	anatomy	611		German	437
	animals	591		Greek	487
	pathology	616		Italian	457
	physiology	612		Latin	477
Dermoskeleton	anatomy	591		Spanish	467
Derricks	engineering	621	Dialogs	entertainments	793
Dervishes		297	Dials	chronology	529
Descartes	empiricism	144	Dialysis	qualitativ analysis	544
	French philosophy	194	Diamagnetism	magnetism	538
Descent	genealogy	929	Diameter of earth		525
	of man	evolution	Diamonds	economic geology	553
	rules of	law		mineralogy	549
		347	Diaries	biografy	920
Description	travel	910	Diatessaron	harmonies of gospels	226
Descriptiv astronomy		523	Diathermancy	heat	536
	geometry	515	Dice	ethics	175
Deserts	physical geografy	551		games	795
Design, architectural		729	Dicotyledonae	botany	583
	arguments from	239	Dictatorship		321
	arts of	740	Dictionaries	English language	423
Designing	decoration	745		French	443
Desks	office equipment	651		German	433
Desmidiaceae	algae	589		Greek	483
Despotism	form of state	321		Italian	453
Detectivs		352		Latin	473
Determinants	algebra	512		of quotations, Eng. lit.	828
Determinations, astron.	geodesy	526		Spanish language	463
Determinativ	mineralogy	549		special, see subject	
Determinism	doctrinal theology	234	Dictionary catalogs		019
	philosofy	159		library admin.	025
Detritus	geology	552	Didactic theology		241
Deuteronomy	Bible	222	Die sinking		736
Deutsch, Platt	language	439	Diet, circle	German local gov't	352
	literature	839		hygiene	613
Developing interest in libraries		021	Differential calculus		517
	method of teaching	371	Differentiation	evolution	575
Development intellectual, and church		261	Diffraction	acoustics	534
	nutrition	591		optics	535
	physiology	612	Diftheria	diseases	616
	theory apologetics	239			

Topics in black-faced type are subdivided in tables.

Difteria	public health	614	Discoverers' lives	923			
Digestion, aids to	therapeutics	615	Discoveries	geografy	910		
	animals	591		science, history	509		
	man	612		useful arts	608		
	plants	581	Discriminants	algebra	512		
Digestiv system, anatomy		611	Discussion, freedom of	free speech	323		
Digests	American law	345	Disease germs, medicin		616		
	Eng. "	346	Diseases		616		
Dignities	heraldry	929.7		animals	veterinary med.	619	
Dikes	geology	551			zoology	591	
	river and harbor eng.	627		contagious	pub. health	614	
Dilation	gases	533		mental, medicin		616	
Diligence	ethics	179			mind and body	132	
Diluvial deposits	geology	551		of children	medicin	618	
Dimension, fourth	geometry	513		ear	surgery	617	
Dimensions of earth		525		eye	"	617	
	sun	523		plants	agriculture	632	
Dimorfism	crystallografy	548			botany	581	
Dining	domestic economy	642		teeth	dentistry	617	
Dinners	" "	642			women	pathology	618
Diocesan schools	education	377	Disfranchisement	suffrage		324	
Diocese	ecclesiastical polity	262	Dishes	pottery		738	
Dioptrics	optics	535	Disinfection, contagious diseases			614	
Dip of rocks	geology	551	Disintegration	geol. agents		551	
Diphtheria	diseases	616	Dislocations	geology		551	
	public health	614		surgery		617	
Diplomacy		327	Dispensaries	institutions		362	
	international law	341		pharmacy		615	
Diplomas	school organization	371	Dispensatories	materia medica		615	
Diplomatic hist.	Amer. civil war	973.7	Dispersion	optics		535	
Diplomatics	English language	421	Displacement of molecules, phys.			539	
	paleografy	417	Display	social ethics		177	
Dipsomania	mental derangements	132	Disputations	religion		204	
	temperance	178		on special subject, see subject			
Diptera	insects	595	Dissection	anatomy, animal		591	
Direct taxation, political economy		336		human		611	
Directories		910		ethics		179	
Directors	library government	023		laws	state control of	614	
Disabilities, political	suffrage	324	Dissenters	English religious hist.		274.2	
Disasters at sea	adventures	910	Dissipation	ethics		178	
	navigation	656	Distance of earth from sun			525	
Discharge of water	engineering	627		moon and stars		523	
Disciples of Christ	sects	289	Distances, measurement, surveying			526	
Disciplin, civil service		351	Distemper	painting		698	
	college	education	Distild beverages	adulterations		614.3	
		ecclesiastical polity		chem. tech.		663	
		education	Distillation	chemical technology		668	
		mental		practical chemistry		542	
		education	Distortions	congenital surgery		617	
		military	Distribution of animals			591.9	
		military science		plants		581.9	
		prison		time	chronology	529	
Disciplinary power	administration	351		political economy		338	
Discount	banking	332		wealth, political economy		331	
Discounts	library book-buying	025	Distributiv	cooperation		334	
Discourses	theology	252					
	see subject						

Topics in black-faced type are subdivided in tables.

District of Columbia, U. S. history	975.3	Domestic worship, family prayer	249
travel	917.53	Domestication, effect on animals and	
court reports, U. S.	345	plants	575
Dithyrambics Greek lyrics	884	Domicil law	347
Divination magic	133	Dominicans monastic orders	271
Divine attributes doctrinal theol.	231	Dominoes games	795
healing	265	Donatists sects	281
law	231	Donkeys domestic animals	636
Providence natural theol.	214	Doors arch. construction	721
right of kings pol. sci.	321	design	729
service public worship	264	Doric order architecture	729
Diving bells pneumatics	533	Dormer windows arch. construction	721
submarine	627	design	729
Divining rod	622	Dormitories architecture	727
Divinity schools architecture	727	student life	371
theology	207	Dort confession	238
theology	230	synod of	284
Divorce ethics	173	Douay Bible Eng. version	220.5
law	347	Double bass stringd instruments	787
public health	614	bassoon, wind "	788
Docks harbor engineering	627	flowers floriculture	716
Dockyards " "	627	morfology	581
Doctors' lives.	926	refraction optics	535
Doctrinal sermons	252	standard money	332
theology	230	stars astronomy	523
Doctrins, heresies, religious hist.	273	Doubt metaphysics	121
Documents, public	328	Douche baths hygiene	613
library economy	025	Dower law	347
Dog fighting ethics	175	Drafts games	794
tax political economy	336	Dragon flies insects	595
Dogma	230	Drainage agriculture	631
Dogmas religious history	273	engineering	627
Dogmatic sermons	252	house	628
Dogmatics	230	land	627
Dogs, diseases of comparativ med.	619	of cities	628
domestic animals	636	mines	622
zoology	599	public health	614
Dolmens prehist. arch.	571	Drama, American literature	812
Domain, eminent law	347	English "	822
state finance	336	French "	842
Domes architectural design	729	German "	832
architecture	721	Greek "	882
observatories astron.	522	Italian "	852
Domesday book Eng. finance	336	Latin "	872
history	942.02	miracle plays Eng. lit.	822
Domestic animals	636	gen. hist.	809
architecture	728	religion	244
duties ethics	173	moral influence of ethics	175
economy	640	sacred	244
medicin	616	Spanish literature	862
relations law	347	Dramas Amer. civil war	973.7
political sci.	323	Dramatic amusements	792
sanitation	628	art theater	792
service	647	biografy actors	927
trade	381	biografy Eng. authors	928

Topics in black-faced type are subdivided in tables.

Dramatic composition	808	Dry docks	engineering	627
criticism	792	goods trade	production	338
history	792	plate process	photografy	772
music	782	point	engraving	767
orchestral music	785	rot	building	691
Dramatists' lives, Eng.	928	Dualism	ontology	111
Davidian architecture	722		Parsee heresies	273
language	494		Parseeism	295
literature	894	Ducts, air	ventilation	697
Drawbridges	engineering	Dueling	ancient law	340
Drawing	740		criminal "	343
architectural	744		customs	394
books	740		ethics	179
elementary education	372	Dumb	asylums	362
mechanical	744		education of	371
room amusements	793	Dumbbells	gymnastics	613.7
topografic	526	Dunes		551
Drawings, architectural	729	Dunkers	baptists	286
building	692	Duodecimals	arithmetic	511
engineering	620	Duplex telegrafs	communication	654
prehistoric archeology	571	Duplicates, sale of	library economy	025
Dream books	folk-lore	Dust, air	pollution	614
Dreams	135		cosmic descriptiv astronomy	523
Dredging	engineering		inhalation of hyg. of employ.	613
	scientific voyages		prevention of, in factories	628
Dresden	travel	Dutch East Indies	history	991
Dress	costume	Guiana	"	988
	ecclesiastical		travel	918.8
	ethics		language	439
Dressing hair	391		literature	839
Dressmaking	646		painting	759
Drift remains	prehist. archeol.		reformd church	284
Drifting and tunneling	mining			285
Drill	military science		republic	history
Drilling	mech. engineering			949.2
	mining	Duties and customs, tariff		337
	"	moral ethics		170
Drink	chem. analysis	of children	ethics	173
Drinkings, social	ethics	citizens	"	172
	usages	husbands and wives	"	173
Drinks	hygiene	parents	"	173
	intoxicating	public officers	"	172
Drives	landscape gardening	servants	"	173
Driving			domestic econ.	647
Dropsy	diseases		remitted	library aid
Droughts	meteorology			021
Drowning	protection of life		social	ethics
Drugs				177
	adulteration of		stamp, political	economy
	analytic chemistry	Duty free import. for colleges		337
	economic botany	religion		233
	intoxicating		biology	573
	ethics	Dwarfs	architecture	728
Druids			hygiene	613
Drummond light			sanitation	628
Drunkness	criminal law	Dwellings	prehistoric	571
Druses	religion	Dyadic	arithmetical	511
		Dyaks	history	991

Topics in black-faced type are subdivided in tables.

Dyeing	chem. technology	667	East Indian languages	491
Dyes, anilin	" "	667	Indies history	954
Dykes	engineering	627	Dutch history	991
	geology	551	river bridge engineering	624
Dynamic electricity		537	Easter	chronology 529
	geology	551		church calendar 264
Dynamics		531		music 783
	celestial	521	Eastern churches	281
	electro	537	empire	949.5
Dynamite	chemical technology	662	question, Turkish history	949.6
	storage protec. of life	614.8	states U. S. history	974
Dynamo-machines	engineering	621.3	Eating	customs 394
Dynamometer		531		diet, hygiene 613
Dynamos	electro dynamics	537	Eccentricity in manners	ethics 177
Dysentery	diseases	616		of orbit of earth 525
	public health	614	Eccentrics, lives of	920
Dyspepsia	diseases	616		machinery 621
Ear	anatomy	611	Ecclesiastes	Bible 223
	deaf and dumb asylums	362	Ecclesiastical antiquities	209
	diseases surgery	617		architecture 726
	hospitals	362		art ecclesiology 246
	physics	534		biografy 922
	physiology	612		calendar chronology 529
	psychology	152		ceremonies customs 394
Early Christian architecture		723		costume 247
	philosophy	189		councils 262
Christians	history	270		courts 348
education, elementary		372		fasts personal relig. 248
English text society		820		public worship 264
forms of English language		427		feasts 264
	French	447		furniture ecclesiol. 247
	German	437		history 270
	Greek	487		Latin, modern philol. 479
	Italian	457		law canon law 348
	Latin	477		legends 209
	Spanish	467		for special legend see topic
	Greek philosophy	182		music 783
	institutions political science	321		polity 262
	printed books	093		statistics 209
	rising hygiene	613.7		trials 262
Earth	astronomy	525		vestments 247
	burial of dead	customs 393	Ecclesiastics	lives biografy 922
		pub. health 614	Ecclesiology	church 261
	closet system	sanitation 628		symbolism 246
	figure of	526	Echinoderms, paleontology	563
	physical geology	551		zoology 593
Earthenware	chemical technology	666	Eclectic medicin	615
Earthquakes		551		philosophy 148
Earth's attraction of moon		523	Eclecticism	148
	figure	526	Eclipses, finding longitude by	525
Earthworks	fortifications	623		of moon or sun 523
Easements	law	347		theory 521
East and West, religious schism		270	Ecliptic, earth	525
	India company	382		solar system 523
	Indian archipelago, history	991	Economic botany	581

Topics in black-faced type are subdivided in tables.

Economic chemistry, chem. tech.	660	Egypt	mythology	299
geology	553	obelisks monuments	718	
zoology	591	philosophers	181	
Economics political economy	330	pyramids antiquities	913.32	
Economy, domestic	640	religion	299	
ethics	174	Soudan history	962	
library	020	travel	916.2	
political	330	travel	916.2	
Ecstasy religion	248	Egyptology antiquities	913.32	
Ecstasies mental derangements	132	Eight-hour law	331	
Ecuador geology	558.6	Elasticity physics	539	
history	986	Elders ecclesiastical polity	262	
religious history	278.6	Eleatic Greek philosophers	182	
travel	918.6	Election doctrinal theology	234	
Ecumenical council eccles. polity	262	frauds, U. S.	324	
religious hist.	270	sermons	252	
Eden original home of man	572	Elections, city administration	352	
Edict of Nantes Huguenot hist.	284	political science	324	
Ediles Roman antiquities	913.37	Electiv franchise	324	
Editions, choice of reading and aids	028	system education	375	
Editorial work	070	Electoral commission suffrage	324	
Education	370	U. S. history	973.8	
and the church	261	frauds	324	
"	377	system polit. science	321	
in relation to labor	331	Electric apparatus, inspection protec-		
industrial systems	371	tion of life	614.8	
useful arts	607	engineering	621.3	
of voters	324	heating building	697	
women	376	light libraries	022	
young	372	mech. eng.	621.3	
self	374	physics	537	
systems of	371	manipulation chemistry	542	
useful arts	607	measurements	537	
special, see subject		measuring of temperature	536	
Educational buildings architect.	727	phenom. of muscles, physiol.	612	
ethics	171	physics	537	
reports, public	379	railways engineering	621.3	
Educator, library as	021	shock surgery	617	
Educators' lives	923	signals	537	
Efemerides	528	storms	538	
Effect and cause metaphysics	122	telegraf, communication	654	
Effigies, monumental	718	Electricity	537	
Effluvium nuisances san. eng.	628	accidents from	614.8	
Eggs oology	598	therapeutics	615	
poultry	636	Electrobiology animal magnetism	134	
Egina marbles, anc. sculpture	733	blasting mining	622	
Egoism ethics	171	chronograf, astronomy	522	
Egypt antiquities	913.32	dynamics	537	
architecture	722	magnetism	538	
botany	581.9	metallurgy	537	
geology	556.2	motors machines	621.3	
hieroglyphics	493	science	537	
history, ancient	932	physiology, animal magnetism	134	
modern	962	plating metallurgy	537	
language, old	493	Electrolysis quantitativ analysis	545	

Topics in black-faced type are subdivided in tables.

Electrometers	537	Emotions	psychology	157	
Electrostatics	statical	537	Emperors' lives	923	
Electrotyping	printing	655	Empire, Eastern	history	949-5
Eleemosynary institutions	361	Empirical philosophy	144		
Elegiac poetry, English lit.	821	Empiricism in medicine	quackery	614	
Greek	"	884	Employers and employed, ethics	174	
Latin	"	874	polit. econ.	331	
Elementary education	372	Employment agencies	laboring classes	331	
forms	arch. design	729	hygiene	613	
readers	Eng. language	428	of time	ethics	179
theory of music	781	women	labor	331	
Elements, chemical	chem. tech.	661	customs	396	
chemistry	546	Empresses' lives		923	
Elephants	mammals	599	Emulation	ethics	179
Eleusinian mysteries	Greek antiq.	913-38	Enamel	chem. technology	666
mythol.	292	painting	751		
Elevated ground	hygiene	613	Encaustic painting	751	
railroad, city transit	388	Encyclical letters	eccles. polity	262	
engineering	625	Encyclopedias, general	030		
temperature	hygiene	special, see subject			
ways	public health	614	Encyclopedists' lives	920	
Elevation	architect. design	729	Endemic diseases	616	
Elevations	meteorology	551	Endemics	medical geography	614
Elevators, mech.	engineering	621	Endless punishment	future state	237
Elgin marbles	733	Endowd libraries	027		
Elia[n] philosophers	Greek philos.	183	schools	education	373
Eliminants	algebra	512	vs public schools	379	
Elixir of life	alchemy	540	Endowment of research	colleges	378
Elizabethan persecutions	history	272	Energy, conservation of	531	
Elliptic functions	calculus	517	Engineering, civil	620	
Elocution	808	mechanical	621		
vocal culture	784	topographic	526		
Eloquence	808	Engineers' lives	926		
English oratory	825	Engines	621		
Elves	folk-lore	398	England, antiquities	913-4	
Elzevir editions	rare printing	094	bank of	332	
Emanation	metaphysics	129	botany	581.9	
Emancipation of slaves	326	church	283		
U. S. history	973-7	geology	554.2		
woman	396	government	354		
Embalming of the dead	customs	393	history	942	
pub. health	614	language	420		
Embankments, river engineering	627	law	346		
Embargo	344	libraries	027		
of 1808-12, U. S. history	973-4	literature	820		
Embassadors	international law	341	painting	759	
political science	327	philosophers	192		
Emblems	ecclesiology	246	" lives	921	
Embossing, book	library economy	025	private law	347	
Embroidery	746	religious history	274.2		
Embryology	animals	591	sculpture	735	
botany	581	slavery	326		
Emergencies	surgery	617	societies, general	062	
Emery wheels	621	statistics	314		
Emigration	political science	325	travel	914.2	

Topics in black-faced type are subdivided in tables.

England, zoology	591.9	Epicurean philosophy	187
English composition	808	Epidemics diseases	616
cyclopedias	032	public health	614
efemerides	528	Epigenesis spontan. generation	576
essays, collected	042	Epigrams English literature	828
journalism	072	Epilepsy diseases	616
literature	820	Epiphany church festival	264
newspapers	072	Epirus ancient history	938
periodicals, general	052	Episcopacy sects	283
philology	420	Episcopal charges sermons	252
private law	347	church	283
socialism	335	orders ministry	262
societies, general	062	Episcopalians' lives	922
Engravers' lives	927	Episcopate ministry	262
occupation hygiene	613	Epistles Bible	227
Engraving	760	church ritual	264
books of	769	Eng. literature	826
of seals and gems	736	Epistolary writers' lives, English	928
Engravings, catalogs of	016.7	Epistolography	808
collections of	769	Epitafs genealogy	929
Enigmas amusements	793	monuments	718
English literature	828	Epizoa parasites, zoology	591
Enlistment army	355	Epizootic diseases, veterinary med.	619
Enoch, Book of	229	Equador history	986
Enrolment school organization	371	travel	918.6
Ensigns flags	929.9	Equality social ethics	177
Ensilage agriculture	633	Equation-machine astron. instru.	522
Entail law	347	of center orbits	521
Entertaining collections, Eng. lit.	828	time chronology	529
Entertainments, licenses for	352	personal, astron. corrections	522
public	791	Equations, algebraic	512
Enthusiasm psychology	157	chemical	541
religious	269	trigonometric	514
Enthymeme logic	166	Equator, inclination of seasons	525
Entomology zoology	595	Equatorial belt earth	525
Entomostraca zoology	595	telescope astronomy	522
Entozoa parasitic diseases	616	Equestrian exercise	798
zoology	595	Equilibrium astronomy, laws	521
Enunciation elocution	808	of liquids physics	532
Environment evolution	575	Equinoxes astronomy	525
influence of, therap.	615	Equipment of armies	355
on man	573	navies	359
mental characteris.	136	Equity law	347
Envy ethics	179	Equivalence of force physics	531
Eocene fossils paleontology	560	theoretic chemistry	541
period geology	551	Equivocation ethics	177
Eolian harp music	787	Eretrian philosophers	183
Eolic dialect	487	Erosion	551
Ephemerides	528	Erotica ethics	176
Ephesians Bible	227	Error, sources of logic	165
Epic dramatic music	782	Errors, grammatic Eng. language	428
painting	753	of observation, probabilities	519
poetry English literature	821	popular delusions	133
Greek	883	Erse language	491
Latin	873	Eruptions volcanoes	551

Topics in black-faced type are subdivided in tables.

Erysipelas	diseases	616	Etymologies	Italian language	452
Escapements	watch making	681		Latin "	472
Eschatology		236		Spanish "	462
Esdras	Bible	229	Etymology, comparativ	philology	412
Eskimo	history	998		inflection Eng. lang.	425
Essayists' lives		928	Eucharist	sacrament	265
Essays	American literature	814	Eucharistic music	religious art	246
	English "	824		vessels sacred furniture	247
	French "	844	Euchre	amusements	795
	general collections	040	Euclidian geometry		513
	German literature	834	Eudiometer	experimental chemistry	542
	Italian "	854	Eudiometry	quantitativ analysis	545
	Spanish "	864	Eufuism	rhetoric	808
	special topics, see subject		Eulerian integrals	calculus	517
Essence	metaphysics	121	Eulogies	biografy	920
Essences	chem. tech.	668		sermons	252
Essenes	Jewish religion	296	Europe	antiquities	913.4
Essential oils	chem. tech.	668		botany	581.9
Established church, Anglican		283		geology	554
Estates	law	347		history	940
	of the realm	328		religious hist.	274
Esther	Apocryfa	229		scientific travels and	
	Bible	222		surveys	508.4
Esthetics	fine arts	701		statistics	314
Etchers' lives	biografy	927		travel	914
Etching		767	European politics	parties	329
Eternal life	future state	237	Evangelical alliance	religion	206
	punishment, doctrinal theol.	237	Evangelist ministry		262
Eternity	natural theology	218	Evangelistic art		246
Ether	temperance	178		music ecclesiology	246
	therapeutics	615		sacred music	783
Ethers	chem. technology	668		work pastoral theol.	253
	organic chemistry	547		writings, practical "	243
Ethical culture societies		170	Evaporation	meteorology	551
	education	377		physics	536
	ethics	170		practical chemistry	542
Ethics		170		steam engineering	621
	legal	174	Evening prayer	Anglican ritual	264
	of copyright	655		family devotions	249
	social	177		personal "	248
Ethiopia	ancient history	939		schools	379
	modern "	966	Evergreens	coniferae	585
Ethiopic language		492	Evidence	law	347
Ethnic religions		290		logic	163
Ethnografy		572	Evidences of Christianity		239
Ethnology		572	Evil	natural theology	216
Etiology	medicin	616		origin of	216
Etiquet	customs	395		pessimism	149
	ethics	177		sin	233
Etruscan architecture		722		spirits	235
	language	477		theodicy	231
Etymologies	English language	422	Evolution	algebra	512
	French "	442		arithmetic	511
	German "	432		biology	575
	Greek "	482		ethics	171

Topics in black-faced type are subdivided in tables.

Evolution	natural theology	213	Expatriation		341
Ex libris		097	Expenditure, public finance		336
Examination, civil service		351	Experimental chemistry		542
	for academic degrees	378	Experiments, chemical		542
	of teachers, education	371		in special subject see subject	
	papers, English philol.	428	Exploitation	mining	622
	post mortem, pathology	616	Explorations		910
	school, education	371	Explorers' lives		923
Examinations, competitiv	civil ser.	351	Explosions, history of		614.8
	schools	371		of fire damp, mining eng.	622
Examining boards	medical licenses	614		protection of life	614.8
Excavation	mining	622	Explosivs	chem. tech.	662
Excavations, antiquities		913		protection of life	614.8
Excess of food	hygiene	613		mining dangers	622
Exchange, bills of	law	347	Export duties, U. S.	tarif	336
	money	332	Exportation		382
	international money	332	Exports		382
	of duplicates	lib. admin. 025		free trade	337
	specimens	biology 579	Expositions	useful arts	606
	stock	332	Expository sermons		252
	tables	business 658	Exposure	of children	customs 392
Exchequer, Gt. Br.	finance	336		dead	" 393
	U. S.	administration 353		to cold	protection of life 614.8
		finance 336	Express companies	sociology	385
Excise laws		336		useful arts	656
Excommunication, ecclesiastic polity		262	Expression, facial	art anatomy	743
Excrementa	sewerage	628		physiognomy	138
Excreta, disinfection	contag. dis.	614		musical	780
Excretion	physiological zoology	591	Extatics	mental derangements	132
Excretions, organic	physiology	612	Extemporaneous speaking		808
Execution	criminal law	343	Extempore prayer	public worship	264
Executiv department	const. law	342	Extension of libraries		021
	lib. adminis.	025		teaching	374
Executors	law	347		university	378
Exegesis	Bible	220.6	Extinct animals	paleontology	560
Exemplaria typografica, rarities		090		plants	561
Exercise	hygiene	613.7	Extinction of fire	prot. of life	614.8
	therapeutics	615		species	575
Exertion, excessiv, effects of		616	Extra books for readers	lib. econ.	024
Exhalation of vapor	zoology	591		fingers or toes	deformities 617
	water vapor, physiology	612		time for readers	lib. econ. 024
Exhaustion, effects of diseases		616	Extraction	mining	622
Exhibition halls	architecture	725		of teeth	dentistry 617
Exhibitions, building		690	Extracts	English literature	828
	international	606		on special subjects	see subject
	of art	708	Extradition	international law	341
	industry	606	Extreme unction	sacraments	265
	school	371	Eye	anatomy	611
	special	see subject		asylums for blind	362
Exhortations	public worship	264		care of	hygiene 613
Exile	punishments	343		diagnosis	pathology 616
	social ethics	177		diseases of	surgery 617
Exodus	Bible	222		hospitals	362
Exorcism		133		optics	535
Expansion	heat	536		physiology	612

Topics in black-faced type are subdivided in tables.

Eye psychology	152	Family medicin	616
Eyes, artificial surgery	617	political science	321
care of, at school	371	relations customs	392
protection of, in factories	628	worship	249
Ezekiel Bible	224	Famin diseases	616
Ezra "	222	hygiene	613
Fables English literature	828	Fanaticism religion	248
Fabrics, textil manufacturers	677	Fancy mental faculties	155
Façades architecture	729	Fancy-work	746
Face anatomy	611	Fans blowing engines	621
surgery	617	mining engineering	622
Facetiae English literature	827	toilet	391
Factories architecture	725	ventilation	697
cooperativ pol. econ.	334	Fantasia music	786
sanitation in	628	Faradization electric medicin	615
useful arts	670	Farces amusements	792
Factors and brokers law	347	English drama	822
Factory, inspection polit. econ.	331	Farewell sermons	252
laws " "	338	Farm-houses architecture	728
system labor and wages	331	Farmers-general finance	336
Fagging student life	371	Farmers' occupation hygiene	613
Fahlbands economic geology	553	Farming agriculture	630
Faience ware pottery	738	Farms, sewage, sanitary eng.	628
Failures, trade	332	Faroe islands history	949-1
Fairies	398	travel	914-91
Fairs, agricultural	630	Faroese language	439
amusements	791	Farriery horse shoeing	682
commercial	381	vet. medicin	619
industrial	606	Farther India geology	555-9
social customs	394	history	959
Fairy tales English literature	823	religious history	275-9
folk-lore	398	travel	915-9
mythology	291	Fascination animals	591
Faith, confessions of creeds	238	Fashion customs	390
pub. worship	264	Fashionable education, women	376
cure religion	265	Fast-day sermons	252
therapeutics	615	Fastening tools, mech. engineering	621
doctrinal theology	234	Fasti, Roman	529
logic of assent	163	Fasting asceticism	248
Falconry amusements	799	hygiene	613
Falkland islands history	997	temperance	178
travel	919-7	Fasts church	264
Fall of man doctrinal theology	233	Fata Morgana, mirage	535
Fallacies logic	165	Fatalism natural theol.	214
Fallen, parish care of	258	Fathers duties	173
Falling bodies, deviations astron.	525	of the church, hist.	270
laws physics	531	lives	922
Falsehood social ethics	177	works	281
Fame "	177	Fats adulterations	614-3
Family devotions	249	chem. technol.	665
ethics	173	organic chemistry	547
genealogies	929	physiology	612
histories	929	Faults structural geology	551
law	347	theory of, mining eng.	622
libraries	027	Fauna zoology	591-9

Topics in black-faced type are subdivided in tables.

Faust, legend of	legends	398	Festivals	cathedral music	783
Feasts	church	264		church	264
	social customs	394		of song music	784
Feathers	birds	598	Fetichism		299
	comparativ anatomy	591	Feudal institutions		321
Fecundity	physiology	612		tenure law	347
Federal government	polit. science	321	Feudalism, age of, European history		940
	party American politics	329		political science	321
Federalism	political science	321	Fever	animal heat	612
Federalists	U. S. history	973.4	Fevers	diseases	616
Feeble-minded, asylums for		362	Fibrous materials	agriculture	633
	education of	371		manufacture	677
	mental derangements	132	Fiction	American literature	813
Feeding of animals	animal hygiene	614		English "	823
Feejee islands	history	996		French "	843
	travel	919.6		German "	833
Feelings	emotions	157		Italian "	853
Fees		331		reading of	028
Feet, artificial, surgery		617		Spanish literature	863
	costumes	391		writing	808
	English prosody	426	Fictitious characters, dict. of		803
	human anatomy	611		imprints	098
	weights and measures	389		names pseudonyms	014
Fellowship, church		265		titles of books	098
Fellowships	colleges	378	Fidelity	ethics	177
Felons	criminal law	343	Fief		321
Felt	roofing	695	Field books	engineering	620
Female education		376		fortifications	623
	employments	396		operations geodesy	526
	labor polit. economy	331		sports	796
	sex duties	173	Fife	musical instruments	788
	suffrage	324	Fighting, animal		175
Fences	law	347		prize	175
Fencing	amusements	796	Figs	agriculture	634
Fenianism	Irish history	941.5	Figure-heads	carving	736
	polit. assoc.	363		human, in art art anatomy	743
Fermentation	chem. tech.	663		of earth astronomy	525
	temperance	178		geodesy	526
	yeast, etc.	589		windows arch. dec.	729
Fermented beverages, adultera.		614.3	Figures of heavenly bodies	astron.	521
	chem. tech.	663		prosody Eng. language	426
Ferments	materia medica	615		French "	446
Ferrieres		716		Ger. "	436
Ferns	botany	587		Gr. "	486
	paleontology	561		Ital. "	456
Ferries	transportation	656		Lat. "	476
Ferrottype	photografy	772		Span. "	466
Fertilization	botany	581	Files	literary methods	029
	zoology	591		office equipment	651
Fertilizers, agriculture		631	Filial duty	ethics	173
	chem. technology	668	Filibusters	criminal law	343
	commercial, air pollution	614		Cuban history	972.9
	manufacture	668		pirates	910
	from sewage	628	Filicinae	botany	587
Festivals	amusements	791	Filing machines	mechanical eng.	621

Topics in black-faced type are subdivided in tables.

Filioque controversy	theology	231	Fires	local government	352
Filling teeth	dentistry	617		mines	622
Fillmore M., presidency of		973.6		protection of life	614.8
Filth diseases, pathology		616	First cause	metaphysics	122
	public health	614		lessons in English language	428
Filtration	hygiene	613	Fish, air pollution		614
	practical chem.	542		as food hygiene	613
	sanitary eng.	628		commission	639
Final causes	metaphysics	124		culture	639
Finale	orchestral music	785		inspection of, pub. health	614.3
Finance	political economy	336		preservation of chem. tech.	664
Finances	library economy	025	Fisheries	business	639
	local government	352		ownership, polit. econ.	333
Financial admin. civil service		351		production	338
	crises pol. economy	332	Fishermen's occupation	hygiene	613
	institutions "	332	Fishes	paleontology	567
Financiers' lives		923		zoology	597
Finding latitude or longitude		525	Fishing	sports	799
	at sea	527	Fittings, library		022
	meridian line astronomy	522	Fixt furniture arch. dec.		729
	time	529		lc ation lib. economy	025
	at sea	527	Fixtures	law	347
Fine arts		700		library	022
	bibliogtafy of	016.7	Flagellants	monastic order	271
	biograpy of	927	Flagellation	religious asceticism	248
Fines	library economy	024	Flageolet	musical instruments	788
Finger alfabet, deaf and dumb		371	Flags	heraldry.	929.9
	rings costumes	391	Flamboyant architecture, Gothic		723
Fingers, extra deformities		617	Flames	physics	536
Finishing	painting	698	Flanders	history	949.3
Finite and infinit metaphysics		125	Flats	architecture	728
	differences calculus	517		housekeeping	647
Finnish language		494	Flattery	ethics	177
	literature	894	Flax	agriculture	633
Finno-Hungarian language		494		manufacture	677
Fire alarm stations architecture		725	Fleets	naval science	359
	alarms signals	654	Flemish language		439
	arms mil. engin'g	623		literature	839
	manufacture	683		painting	759
	balls meteors	523	Flies	insects	595
	clays economic geology	553	Flight of birds, migration		591
	departments administration	352	Flint chips early stone age		571
	engines, mechanical engineering	621	Floating batteries naval engineering		623
	protection of life	614.8		bodies physics	532
escapes and exits		614.8		debt finance	336
extinction local government		352	Flogging in navy		359
	protection of life	614.8		punishments	343
insurance		368	Flooding of mines		622
physics		536	Floods	meteorology	551
places		697		protection against	627
	artistic furniture	749	Floors and flooring architecture		721
proof buildings, building		693		mosaic arch. decoration	729
works chemical tech.		662	Flora, geografic		581.9
worshippers		295	Flore and Blancheflor legends		398
Fires	library	022	Floriculture landscape gardening		716

Topics in black-faced type are subdivided in tables.

Florida, U. S. history	975.9	Football	amusements	797
travel	917.59	Foraminifera	zoology	593
Flour manufacture	679	Force and energy	statics	531
Flow of blood	physiology 612	centrifugal and centripetal	531	
liquids	physics 532	electric, engineering	621.3	
streams	meteorology 551	physics	537	
Flower garden, landscape garden.	716	intermolecular	physics 539	
Flowers	botany 580	lines of magnetism	538	
gardening	716	metaphysics	118	
language of	716	of water, river engineering	627	
Flues, smoke	heating 697	pump pneumatics	533	
Fluids, physics	532	transmission of, mechan.	531	
preservativ, biol. specimens	579	mill work	621	
Fluorescence	light 535	Foreclosure	law 347	
Fluorin	inorganic chemistry 546	Foreign banks	332	
Flute	musical instruments 788	bodies, presence of, diseases	616	
Flutina	music 786	wounds surgery	617	
Fluxes	metallurgy 669	elements	English language 422	
Fluxions	calculus 517	enlistment	355	
Fly, house	zoology 595	labor	political economy 331	
Flying	animal locomotion 591	law	349	
machines, aeronautics	533	missions	266	
Fog signals	commerce 656	relations	internat. law 341	
Folds	geology 551	polit. science	327	
Foliage	botany 581	states	administration 354	
Folk-lore	398	trade	382	
song	folk-lore 398	Foreknowledge of God	doct. theol. 231	
music	784	Forensic chemistry	law 340	
Fonoscribing	shorthand 653	medicin	" 340	
Font	sacred furniture 247	Foreordination	salvation 234	
Food, acquisition of	physiolog. zool. 591	Forest trees	botany 582	
adulterations	public health 614.3	Forestry	agriculture 634	
animal	econ. zoology 591	landscape gard.	715	
canned	adulterations 614.3	Forests	meteorology 551	
chemical	analysis 543	ownership, polit. econ.	333	
technology	664	Forge-bellows	533	
cures	therapeutics 615	Forgemen's occupation	hygiene 613	
digestion and nutrition	612	Forgery	law 343	
zoology	591	of academic degrees	378	
domestic economy	641	political economy	332	
hygiene	613	Forgiveness of sin	theology 234	
inspection	adulterations 614.3	Forks, tuning	acoustics 534	
of animals	591	Form books	law 347	
laboring classes, polit. econ.	331	musical	781	
plants	581	ontology	111	
preservation of	664	Formation of character	374	
preservd	adulterations 614.3	crystals, crystallografy	548	
vegetable	econ. botany 581	Forms, elementa y	arch. design 729	
zoology	591	Formularies	materia medica 615	
Fools	lives 920	Fornication	criminal law 343	
mental derangements	132	Fortifications	military engineering 623	
Foot	English prosody 426	Fortune-telling	133	
human anatomy	611	Fossil	man 569	
measures	389	antiquity of man	573	
prints, fossil	paleontology 566	resins	economic geology 553	

Topics in black-faced type are subdivided in tables.

Fossils	560	Freedmen, slavery	326
Foucault's pendulum	525	Freedmen's bureau	361
Foundation of piers bridge eng.	624	Freedom and emancipation, slavery	326
Foundations, arch. construction	721	U. S. hist.	973.7
Founding of libraries	021	metaphysics	123.
type printing	655	of man doct. theol.	233
Foundling asylums sociology	362	press censorship	323
Foundries metal manufactures	671	speech	323
Fountains landscape gard.	714	political liberty	323
Fourierism communism	335	religious eccles. polity	262
Fowling sport	799	salvation	234
Fowls domestic animals	636	Freehold land societies	334
Fox-hunting amusements	799	law	347
Fractional currency money	332	Freemasonry	366
Fractures surgery	617	Freewill baptists	286
Frames artistic furniture	749	Freezing, artificial ice machines	621
Framing carpentry	694	physics	536
France		Freight transportation	656
antiquities	913.4	French and Indian wars U. S. hist.	973.2
botany	581.9	church, Gallican	282
geology	554.4	cyclopedias	034
history	944	essays, collected	044
language	440	Guiana history	988
laws	349	travel	918.8
literature	840	horn wind instrum.	788
religious history	274.4	journalism	074
travel	914.4	language	440
zoology	591.9	literature	840
Franchise, electiv polit. sci.	324	newspapers	074
Franciscan monks	271	old language	447
sisterhood	271	opera dramatic music	782
Franking privilege post-office	383	painting	759
Franks history	943	periodicals, general	054
Fraudulent elections U. S.	324	philosofers' lives	921
Fraunhofer's lines spectroscope	535	philosofy	194
Free agency doctrinal theology	234	polish chem. tech.	667
church of Scotland, sects	285	protestants, persecutions of	272
hand drawing	741	revolution	944
love ethics	173	Romanesque architecture	723
news and reading rooms	027	roofs arch. construc.	721
public libraries	027	sculpture	735
religion	211	societies, general	064
school system education	379	spoliations U. S. history	973.4
soil party political party	329	Fresco painting, building	698
U. S. history	973.6	interior decoration	747
speech polit. science	323	painting	750
thinkers' lives	922	sacred ornament.	247
thought ecclesiastical polity	262	Fresh-air mission	361
rationalism	211	Freshets meteorology	551
trade and protection	337	Fret-work	747
use of libraries	024	Friars monastic orders	271
will metaphysics	123	Friction mech. engineering	621
psychology	159	physics	531
theology	234	Frictional electricity	537
Freebooters criminal law	343	Friendly societies	334
Freedmen, education of	371		

Topics in black-faced type are subdivided in tables.

Friends, society of sects	289	Future judgment doctrinal theology	236
Friendship ethics	177	life natural theology	218
Friesland history	949.2	punishment	237
travel	914.92	state doctrinal theol.	237
Friezes architectural decoration	729	Gabbro plutonic rocks	552
Frisian language	439	Gables arch. construction	721
literature	839	design	729
Fröbel's system education	372	Gadhelic language	491
Frogs zoology	597	Gadsden purchase U. S. history	973.6
Frost action geology	551	Gaelic language	491
bites skin disorders	616	Gaging arithmetic	511
blight agriculture	632	measures	389
meteorology	551	Galatians Bible	227
Fructification botany	581	Galena economic geology	553
Fruit culture	634	metallurgy	669
drinks adulterations	614.3	Gales meteorology	551
Fruits and seeds agriculture	634	Gallantry ethics	177
organograpy	581	Galleries and libraries	021
inspec. of pub. health	614.3	art	708
preservation of chem. tech.	664	architecture	727
Fuel, chemical tech.	662	library buildings	022
domestic economy	644	Galleys criminal law	343
metallurgy	669	Gallican church	282
steam engineering	621.1	Gallows criminal law	343
Fugitive slave law U. S. slavery	326	Galvanic manipulation chemistry	542
Fugitives from justice extradition	341	Galvanism	537
Fugue music	786	Galvanized iron manufactures	671
Fulminating powders chem. tech.	662	Gambling ethics	174
Fumes, prevention of, in factories	628	of amusements	175
Fumigating apparatus, cont. diseases	614	law	345
Functional equations	517	Game laws hunting	799
Functions, calculus of	517	Games amusements	790
symmetric, algebra	512	champ'nship school hygiene	371
trigonometric	514	customs	394
Funding system finance	336	ethics	175
Funds, public	336	Greek	913.38
Funeral rites customs	393	of chance amusements	795
religious ordinance	265	ethics	175
sermons	252	skill amusements	794
Fungi botany	589	Roman	913.37
Fur-trade	338	school	371
Furnaces house warming	697	table and parlor	793
metallurgy	669	Garbage sanitation	628
steam engineering	621.1	Gardening, flower	716
Furniture artistic	749	kitchen	635
domestic economy	645	landscape	710
ecclesiastical	247	market	635
fixt, arch. decorat.	729	window	716
library economy	022	Gardens, botanic	580
manufacture	684	public	711
office equipment	651	zoologic	590
Furs clothing	646	Garfield, J. A., presidency of	973.8
Fuses explosivs	662	Garter, order of heraldry	929.7
Fusion-point physics	536	Gas, coal heating	697
Future events, probabilities	519	engines engineering	621

Topics in black-faced type are subdivided in tables.

Gas engines	physics	536	Genius	151
fitting		696	hereditary	136
fuel		662	Genre painting	754
heating		697	Gentlemen	courtesy 177
illuminating	public health	614	Gentleness	ethics 179
light	domestic economy	644	Geodesy	526
	library	022	Geognosy	551
manipulation	practical chem.	542	Geografic coordinates	525
manufacture		665	discovery, history of	910
natural	economic geology	553	distribution, animals	591.9
sewer	air pollution	614	fossils	560
	sanitary engin.	628	plants	581.9
suffocation by, protection of life		614.8	names	929
water	heating	697	Geografy, ancient	912
works	air pollution	614	Biblical	220.9
Gases	chem. tech.	665	descriptiv	910
	effect on books	025	elementary	education 372
illuminating	air pollution	614	historical	911
in mines		622	maps	912
kinetic theory		533	physical	551
noxious	air pollution	614	Geologic reports	550
pneumatics		533	surveys	554-559
quantitativ analysis		545	Geologists' lives	925
Gastronomy	cooking	641	Geology	550
Gastropoda	zoology	594	agricultural	631
Gates	arch. construction	721	and religion	apologetics 239
Gatling guns	military eng.	623	applied	mining eng. 622
Gaul	history	944	dynamic	551
Gautama	Buddhism	294	nat. theol.	215
Gazetteers		910	Geomancy divination	133
	special country	see country 914-919	Geometric drawing	math. drawing 744
Gearing	mill engineering	621	forms	arch. decoration 729
Gehenna	doctrinal theology	237	Geometricians' lives	925
Geissler's tubes	electricity	537	Geometry	513
Gelatin processes	photografy	773	analytic	516
Gem engraving		736	descriptiv	515
Gemara	Judaism	296	Geomorfy	525
Gems	economic geology	553	Georgia, U. S.	history 975.8
	engraved	736	travel	917.58
	mineralogy	549	Germ theory	biology 576
Genealogy		929	of disease	bacteria 589
General council	eccles. polity	262	pathology	616
	councils	religious history 270	German catholic church	sects 282
Generalization, logic		161	cyclopedias	033
Generals, lives of		923	dancing	793
Generation, botany		581	empire	943
	spontaneous	576	essays, collected	043
	steam	621.1	journalism	073
	zoology	591	language	430
Genesis	Bible	222	low	439
Geneva confession	creeds	238	literature	830
	history	949.4	low	839
	travel	914.94	mythology	293
	tribunal	international law 341	newspapers	073
Genii		398	opera	music 782

Topics in black-faced type are subdivided in tables.

German painting	759	Glazing	building	698
periodicals, general	053	Glees	vocal music	784
philosophers' lives	921	Globes	school apparatus	371
philosophy	193		use of astronomy	522
reformation relig. hist.	274.3	Globular projection		515
secular hist.	943	Gloria in excelsis	service, music	783
reformed church	284	Glossaries	English dialects	427
Romanesque architecture	723		language	423
sculpture	735	Gloves	clothing	646
socialism	335		costume	391
societies, general	063		leather, manufacture	675
Germany			woven	677
antiquities	913.4	Glucose	chem. technology	664
botany	581.9	Glue	" "	668
geology	554.3		making air pollution	614
government	354	Gluttony	temperance ethics	178
history	943	Glycerin	chemical technology	668
laws	349	Glyfography	engraving	762
religious history	274.3	Glyptics	carving	736
travel	914.3	Gnats	animal parasites	616
zoology	591.9	Gneiss	lithology	552
Germination		Gnomes	folk-lore	398
botany	581	Gnomic poetry	Greek literature	881
Gestures	808	Gnomonic projection, descr. geom.		515
Geysers	physical geology	Gnosticism	philosophy	189
Ghebers	Parseeism	Gnostics	heresy	273
Ghibelines	Italian history	Goats		636
Ghost, Holy	dogmatics		diseases of	619
	knights		comparativ med.	619
Ghosts	delusions	Gobelin tapestry	art needlework	746
Giant, Cardiff	humbugs	Goblins	folk-lore	398
Giants	natural history of man	God	doctrins	231
Gilding		Gods	idolatry	290
Gilds	polit. economy		mythology	291
	parish work	Goiter	pathology	616
Gilead	travel	Gold	chemistry	546
Gin	chemical technology		coinage	332
Gipsies	biography		manufactures	671
	outcast races		metallurgy	669
Gipsy language			ores econ. geology	553
Girders	bridge engineering		political economy	332
Girls, counsels to	ethics	Golden Fleece	knights	929
	female education	Goldsmithing, useful arts		671
	religious societies	Goldsmiths' work	fine arts	739
Girondists, France	history	Golf	amusements	796
Glacial period		Goniometry	crystallography	548
Glaciers		Good Friday	church calendar	264
Gladiators	customs		music	783
Glanders	diseases		Templars	temperance
	public health			178
Glass	building	Goodness	ethics	179
	iridescent	Goose, Mother, folk-lore		398
	manufacture	Gorilla	zoology	599
	painted	Gospels	Bible	226
	prehistoric		church ritual	264
	roofs		pseudo	229
	architecture	Gossip	ethics	177
	stained, design			

Topics in black-faced type are subdivided in tables.

Gotama	Buddhism	294	Grammars	Latin language	475
Gothic architecture		723		Spanish "	465
ecclesiology		246	Grand army of the repub., association		369
language		439	U. S. hist.		973.7
literature		839	opera		782
revival, architecture		724	Grangers		363
Gothland, Sweden	history	948.6	Granite	building rock	552
	travel	914.86		stone	553
Goths		943	Grant, U. S., presidency of	hist.	973.8
Gout	diseases	616	Grants, land	finance	336
Governess, private	education	373	to schools		379
Government	central admin.	351	Grape culture		634
	church	262	sugar	manufacture	664
	divine	231	Graphite	economic geology	553
	elemen. schools	372	Grasses	agriculture	633
	family, ethics	173		botany	584
	foreign countries	354		ornamental	716
	forms of	321	Grasshoppers	pests	632
	libraries	027		zoology	595
	library economy	023	Gratitude	ethics	179
	loans	finance	Grave mounds	prehist. archeology	571
	local administration	352	stones	monuments	718
	political science	320	yards		719
	publishing	655	Gravel	disease	616
	school, education	371		petrography	552
	science of polit. sci.	320	Graves	cemeteries	719
	U. S. and state adm.	353	Gravimetric analysis	chemistry	545
Governmental buildings	arch.	725	Gravitation	celestial dynamics	521
Governors' lives		923		theories	531
Grace	doctrinal theology	234	Gravity, center of		531
	esthetics	701	experiments	geodesy	526
Graces	mythology	292	physics		531
Graded degrees, academic		378	specific		532
Grades	schools	371	Grease	chemical technology	665
Grading	engineering	625	Great Britain	antiquities	913.4
Graeco-Russian church		281		church hist.	274.2
Grafiti	economic geology	553		colonies	325
Graffiti	Latin inscriptions	471		commerce	382
Grafic arts, fine arts		700		debt of finance	336
statics		531		history	942
Grafting	fruit culture	634		parliament	328
Grail, holy	legends	398		politics	329
Grain	agriculture	633	Eastern	ship-building	699
	trade	dom. trade	Salt lake	travel	917.92
Graining	house painting	698	Grecian bend	fashions	391
Grains	agriculture	633	Greco-Russian church		281
Grammar, comparativ		415	Greece	ancient history	938
elemen. education		372	modern	botany	581.9
schools	public schools	379		geology	554.9
universal	compar. philol.	415		history	949.5
Grammars	English language	425		travel	914.95
	French	445	Greek antiquities		913.38
	German	435	archipelago	ancient hist.	939
	Greek	485		modern "	949
	Italian	455		travel	914.99

Topics in black-faced type are subdivided in tables.

Greek architecture	722	Guiana, South America history	988
art, history of	709	religious history	278.8
church	281	travel	918.8
classics	880	Guide books	910
dialects	487	Guides, railroad	656
fire customs of war	399	Guilds, business political economy	338
independence mod. history	949.5	parish work	256
language	480	Guillotins law	343
modern	489	Guinea, Lower, Africa history	967
literature	880	New, Oceania "	995
modern	889	Upper, Africa "	966
mythology	292	Guitar music	787
orders of architecture	729	Gulf states, U. S. history	976
paleography inscriptions	481	stream physical geography	551
philosophy	180	Gums and resins chem. tech.	668
revival architecture	724	fossil economic geology	553
sculpture	733	Gun cotton explosives	662
Greenback party	329	making	683
Greenbacks paper money	332	Gunnery military engineering	623
U. S. finance	336	Gunning sports	799
Greenhouses	716	Gunpowder explosives	662
Greenland history	998	manuf. protec. of life	614.8
Greensand petrography	552	Guns military engineering	623
Gregariousness of animals	591	Gunter's scale, mathematical instru.	510
Gregorian calendar	529	Gutta percha rubber manufacture	678
chant ecclesiology	246	Gymnasia German schools	379
sacred music	783	Gymnasiums architecture	725
Grilles arch. construction	721	Gymnastics curativ	615
Grimm's law comparative philology	412	hygiene	613.7
Grinders' occupation hygiene	613	school hygiene	371
Grinding flour mills	679	vocal elocution	808
machines mech. eng.	621	vocal music	784
Groceries adulterations	614.3	Gymnosofists philosophy	181
Grocers' occupation hygiene	613	Gymnospermae botany	585
Groind vaults architecture	721	Gynecology diseases of women	618
Grottos physical geography	551	Gypsies biography	397
Ground air hygiene	613	outcast races	397
public health	614	Gypsum agriculture	631
hygiene of public health	614	economic geology	553
water physical geog.	551	lithology	552
Grounds, private	712	Gypsy Romany language	397
Groves landscape gardening	715	Habakkuk Bible	224
Growth biology	577	Habeas corpus law	347
botany	581	Habit mental faculties	158
of cities adminis.	352	Habitations, human hygiene	613
statistics	312	of animals zoology	591
physiology	612	Habits animals zoology	591
zoology	591	customs	390
Guano agriculture	631	laboring classes, pol. econ.	331
economic geology	553	plants physiol. botany	581
Guardianship law	347	Hack licenses local government	352
Guatemala history	972.8	Hades ancient mythology	292
Guelfs Italian history	945	doctrinal theology	236
Guerrilla warfare international law	341	Hæmorrhoids, diseases	616
Guiana, South America geology	558.8	Haggai Bible	224

Topics in black-faced type are subdivided in tables.

Hague, the	history	949.2	Harmony of colors	optics	535
	travel	914.92		painting	752
Hahnemann's theory	therapeutics	615		gospels Bible	226
Hail storms	meteorology	551	Harness-making		685
Hair	anatomy	611	Harp		787
	diseases of	616	Harper's Ferry invasion, U. S. history		973.6
	dressing customs	391	Harpichord		787
	toilet	646	Harrison, W: H., presidency of		973.5
	organic chemistry	547	Hartford convention U. S. history		973.5
	physiology	612	Harvesting	agriculture	633
Half-way covenant		285	Hasheesh	ethics	178
Halids	organic chemistry	547		hygiene	613
Hallow-eve	customs	394	Hat-making		687
Halls	architecture	725	Hatching	artificial, incubation	636
	public hygiene	613		engraving	762
	society student life	371	Hate	ethics	179
Hallucinations		133	Hats	clothing	646
Halogen group	chemistry	546		costume	391
Haloids	organic chemistry	547	Haulage	mining engineering	622
Halos	optics	535	Hawaii	history	996
Hamar, Norway	history	948.4		travel	919.6
	travel	914.84	Hawaiian language		499
Hamitic language		493	Hawking	sports	799
	literature	893		trade	639
Hammers	machine tools	621	Hay	agriculture	633
	steam machine tools	621		fever and asthma diseases	616
Hand	chiromancy	133	Hayes, R. B., presidency of		973.8
	human anatomy	611	Hayti	history	972.9
	language, deaf and dumb	371		travel	917.29
	railing stair building	694	Haze	meteorology	551
	turning lathes	621	Hazing	student life	371
Handbooks of travel		910	Head	anatomy	611
Handicraft	mechanic trades	680		art anatomy	743
Handkerchief	customs	391		craniology	573
Hands, artificial	surgery	617		diseases	616
Handwriting		652		dress customs	391
Hanging	punishments	343		phrenology	139
Hangings, textil	building	698		surgery	617
Hanover, House of, English hist.		942.07	Headaches	diseases	616
Hanseatic league	history	943	Headstones	monuments	718
Happiness	ethics	171		mortuary design	247
Harbor defenses	fortifications	623	Healing, divine		265
	engineering	627	Health affected by soil, hyg. of ground		614
Harbors, hydrography of	surveying	526		boards of local gov't	352
Hard labor	punishments	343		public health	614
Hardness of molecules	physics	539		laws hygiene	613
Hardware		671		lift therapeutics	615
Harelip	surgery	617		of students	371
Harems in Turkey	customs	392		public	614
Harlots	ethics	176		resorts hygiene	613
Harmonics	analytic geometry	516	Healts, drinking of	customs	394
	modern "	513		ethics	178
	music	781	Hearing	acoustics	534
Harmonium	musical instruments	786		anatomy	611
Harmony	music	781		asylums for deaf	362

Topics in black-faced type are subdivided in tables.

Hearing	diseases	617	Henry 2	English history	942.03
	ear hospital	362	3	"	942.03
	physiology	612	4	"	942.04
	senses	152	5	"	942.04
Heart	anatomy	611	6	"	942.04
	diseases	616	7	"	942.05
Heat, animal	physiology	612	8	"	942.05
	engines air engines	621	Hens	diseases of	619
	geologic agents	551		poultry	636
	meteorology	551	Hepaticae	botany	588
	of earth	525	Hepatology	physiology	612
	heavenly bodies	523	Heptarchy	English history	942.01
	physics	536	Heraclitus	Greek philosophy	182
Heathen art	ecclesiology	246	Heraldry		929.6
	missions to	266	Herb doctors	cures	615
	philosophy vs the church	261	Herbariums		580
	religions	290	Herculaneum	description	913.37
	salvation of	234	Hereditary diseases	hygiene	613
Heathenism, non-Christian relig.		299		genius mental character.	136
Heating, buildings		697		succession law	347
	domestic econ.	644		pol. sci.	321
	houses, sanitary engineer.	628	Heredity	evolution	575
	libraries	022		hygiene	613
	physics	536		mental	136
	practical chemistry	542		origin of the soul	129
	steam engineering	621.1		spiritual doct. theol.	233
Heaven	theology	237	Heresies		273
Hebraic sabbath		263	Heretics, persecutions of		272
Hebrew ancient history		933	Hermeneutics Bible		220.6
	language	492	Hermetic art	alchemy	540
	literature	892	Hermits' lives, biography		920
	religion	296		relig. biography	922
Hebrews	epistles	227	Hernia	diseases	616
	modern history	296	Heroism	ethics	179
Hebrides	history	941	Herpetology		598.1
Hedges	landscape gardening	715	Herring fisheries		639
Hedonism	ethics	171	Herzegovina history		943.9
Heidelberg catechism		238	Hessian fly	economic zoology	591
Heirs	law	347		pests	632
Heliocentric	place	521	Hexapoda	zoology	595
Heliometer	astronomy	522	Hibbert lectures	religion	290
Helio-stat	"	522	Hibernation	zoology	591
Heliotypes		774	Hicksites friends		289
Hell		237	Hieroglyphics		419
Hellebore	poisons	615		Egyptian	493
Hellenic languages, minor		489	High church	Anglican church	283
Helminthology	zoology	595		license temperance ethics	178
Helps for laboring classes	pol. econ.	331		pressure heating	697
Hemiptera	insects	595		schools	379
Hemorrhage of the lungs	diseases	616		treason law	343
Hemorrhoids	"	616	Higher education	academies	373
Hemp	agriculture	633		colleges	378
	manufactures	677	Highlands, Scotland, description		914.1
Henri Deux ware	pottery	738		history	941
Henry 1	English history	942.02	Hight of atmosphere		523

Topics in black-faced type are subdivided in tables.

Hights, measurement of	surveying	526	Hives	skin diseases	616
Highwaymen	law	343	Hog	domestic animals	636
Highways, law		347	Hoisting machinery	mill work	621
	local government	352		mining engineering	622
	road engineering	625	Holiday opening	library economy	624
	transportation	386	Holidays	hygiene	613
	travel on, protect. of life	614.8		school, education	371
Hildebrand	Italian history	945	Holiness	doctrinal theology	234
	religious "	270	Holland	history	949.2
Himalayan architecture		722		reformation in, relig. hist.	274.9
Himalayas	physical geograpy	551		travel	914.92
	travel	915.4	Holly system	water supply of towns	628
Himyaritic language		492	Holstein cattle	domes. animals	636
Hindi language		491	Holtz machine	electricity	537
Hindostan	history	954	Holy alliance	European history	940
Hindu architecture		722		communion	265
	languages	491	Ghost	knights	929.7
	law	349		theology	231
	philosophy	181	grail	legends	398
	religion	294	land	history, ancient	933
Hinduism	religion	294		travel	915.6
Hindustan	history	954	orders	church	265
Hindustani language		491	Roman empire		943
Histogenesis	zoology	591	rood	ecclesiology	247
Histology	animals	591	scriptures		220
	botany	581	Spirit	theology	231
	human anatomy	611	water	ecclesiology	246
Historians' lives		928	Homage feudalism		321
Historical atlases		911	Home customs		392
	books Bible	222		education self-education	374
	charts and tables	902		vs public	373
	geograpy	911		life ethics	173
	magazines	905		missions	266
	on special subjects see subject			relations, customs	392
	painting	756		rule Irish history	941.5
	sermons	252		political parties	329
	societies	906		study, societies for	374
	on special subjects see subject			woman in	396
	theology	209	Homeopathy	therapeutics	615
History		900	Homes	asylums	725
	ancient	930		hygiene	613
	bibliograpy of	016.9		residences architecture	728
	constitutional	342		soldiers' institutions	362
	ecclesiastical	270		working girls' "	362
	general modern	909		laboring classes	331
	literary, general	809	Homestead bill	U. S. law	347
	modern	940-999	Homicide	law	343
	natural	590	Homiletics	theology	251
	naval, see spec. countries		Homilies	sermons	252
	of civilization	901	Homologies	biology	574
	philosophy of	901		zoology	591
	sacred	220.9	Homonyms	English language	424
	universal	909		French "	444
	of special topics see subject			German "	434
Histrionics		792		Greek "	484

Topics in black-faced type are subdivided in tables.

Homonyms	Italian language	454	Host	eucharist	265	
	Latin	474	Hot springs	physical geology	551	
	Spanish	464	water	heating	697	
Homoptera	entomology	595	Hotels		647	
Honduras, Central America, history		972.8		architecture	728	
	travel	917.28		hygiene	613	
Honesty	ethics	174	Hothouses	agriculture	635	
Honey	agriculture	638		flower culture	716	
Honeymoon	customs	392	Hour glasses	horology	529	
Honor	business ethics	174	Hours of labor	political economy	331	
	student	371	school		371	
Honorary degrees	colleges	378	House building		690	
	titles	929.7	furnishing	domestic econ.	645	
Hood, Robin	legends	398	of commons	legis. bodies	328	
Hoods, academic		378		correction	364	
Hooping cough	diseases	616		lords	legis. bodies	328
Hoosac tunnel, engineering		622		refuge	364	
Hopkinsianism	Calvinism	284		representativs	legis. bodies	328
Hops	agriculture	633		painting	building	698
	brewing	663		sewerage		628
Horn	wind instrument	788	Household art, decoration		747	
	organic chemistry	547	Housekeeping		640	
Hornd cattle	agriculture	636		cooperativ	334	
Horns, drinking	customs	394	Houses	architecture	720	
Horology	astronomy	529		hygiene	613	
	watch making	681		noble	heraldry	929.7
Horoscope	astrology	133		sewerage	628	
Horse cars	railroad engineering	625		society	student life	371
	diseases	619	Housewifery		640	
	veterinary medicin	619	Housing of animals	animal hygiene	614	
	domestic animal	636	Howitzers	ordnance	623	
	racing	798	Huckster licenses	local gov't	352	
	ethics	175	Hudson bay territory	history	971	
	railway, engineering	625		river	description	917.47
	sociology	386	Huguenots	church	284	
	useful arts	656		lives	922	
	shoeing	682		persecutions	272	
	training, domestic animals	636	Hulsean lectures	apologetics	239	
	veterinary medicin	619	Human ability, doctrinal theology		233	
	zoology	599		anatomy	611	
Horsemanship		798		body and mind	130	
Hortatory theology		243		body	art anatomy	743
Horticultural societies		716		depravity	doctrinal theology	233
	agriculture	630		faculties	psychology	150
Horticulture		716		habitations	hygiene	613
	fruits and vegetables	634		life, protec. fr.	accident	614.8
Hosea	Bible	224		mind	psychology	150
Hosiery	clothing	646		nature	dogmatics	233
	costumes	391			mental characteristics	136
	manufacture	677		physiology		612
Hospice of St Bernard, protec. of life		614.8		race	ethnology	572
Hospital sketches	Amer. civil war	973.7		resorts	hygiene	613
Hospitality	ethics	177		rights	polit. science	323
Hospitallers	knights	929.7		sacrifice, non-Christ. relig.	290	
Hospitals		362	Humane societies		361	
	and asylums, arch.	725				

Topics in black-faced type are subdivided in tables.

Humanism	880	Hygiene	613
Humanitarianism unitarianism	288	mental	131
Humanity ethics	177	military	613
Humbugs delusions	133	naval	613
Humility ethics	179	of air and ground public health	614
Humming-birds zoology	598	animals public health	614
Humor American literature	817	travel and exploration	613
English "	827	prison	613
French "	847	public	614
German "	837	school education	371
Greek "	887	vocal	784
Italian "	857	Hygrometry meteorology	551
Latin "	877	Hylozoism metaphysics	146
Spanish "	867	Hymn tunes music	783
Humorists' lives	928	Hymnody "	783
Hungarian language	494	Hymnology sacred theology	245
Hungary history	943-9	Hymns and psalms hymnology	245
travel	914.39	Hyperboreans Greek mythology	292
Hunger and thirst physiology	612	Hypnotics therapeutics	615
Huns history	950	Hypnotism mesmerism	134
Hunting business	639	Hypochondria medicin	616
sport	799	mental disease	132
Huronian strata geology	551	Hypotheses logic	167
Hurricanes	551	Hypothesis, nebular	523
Husband and wife law	347	Hypsometry physical geograpy	551
Husbandry agriculture	630	Hysteria diseases	616
Husbands, duties of ethics	173	Hysterics mental derangements	132
Hu-sites Christian sects	284	Ice age geology	551
Huzwarshe language	491	dealers trades	689
Hydraulic engine mech. engin.	621	erosion and deposition	551
physics	532	frost geologic agents	551
engineering	627	impure hygiene	613
mining engineering	622	manufacture	621
press "	621	meteorology	551
physics	532	Icebergs physical geograpy	551
ram engineering	621	Iceland history	949.1
Hydraulics science	532	travel	914.91
Hydrocarbons chemistry	547	Icelandic language	439
Hydrocephalus diseases	616	literature	839
Hydrodynamics physics	532	domestic economy	641
water engines	621	Ichnology paleontology	566
Hydrofobia diseases	616	Ichthyology	597
protectiv inoculation	614	Iconoclasts heathen art	246
public health	614	Iconograpy	730
Hydrogen chemistry	546	Christian	247
Hydrogeology	551	emblems	246
Hydrograpy surveying	526	Iconology history	979.6
Hydrokinetics	532	travel	917.96
Hydrology	551	Idealism philos. system	141
Hydromechanics	532	Idealistic painting	753
Hydrometer specific gravity	532	Ideas, innate intuitiv faculty	156
Hydrometry velocity	532	Identity, mistaken law	347
Hydropathy	615	personal	126
Hydrostatics	532	Idiocy	132
Hydrozoa zoology	593		

Topics in black-faced type are subdivided in tables.

Idioms	English language	423	Immortality	natural theology	218	
	French	443		of animals	591	
	German	433	Impeachment, administration		351	
	Greek	483		constitutional law	342	
	Italian	453		criminal law	343	
	Latin	473	Imperial federation, Gt. Br.		354	
	Spanish	463		robes ceremonies	394	
Idiosyncrasies, mental		137	Implements, agricultural		630	
Idiot asylums		362		domestic	643	
schools		371	Importation duty free for colleges		337	
Idleness	ethics	179		of books, lib. econ.	025	
Idolatry	non-Christ. relig.	290	Imports	commerce	382	
Igneous rocks	lithology	552		duty on	337	
Iguanodon	fossils	568	Impostors	humbugs	133	
Illegitimacy	law	347	Imprecations	ethics	179	
Illinois, U. S.	history	977.3	Impressionist school of painting		759	
	travel	917.73	Impressment of seamen		359	
Illiteracy	public schools	379	Imprints, fictitious		014	
	spelling reform	421	Imprisonment	punishments	343	
Illuminated books		096	Impure ice	hygiene	613	
manuscripts		091	Impurities of well water	hygiene	613	
Illuminati	society	366		waterworks	628	
Illuminating gases	chem. tech.	665	Inability, human	doctrinal theology	233	
	public health	614	Inaugurations	ceremonies	394	
Illumination, decoration		745	Incandescence, heat		536	
electric		537	Incantations		133	
engineering		621.3	Incarnation	Christology	232	
house lighting		644	Incas	history	985	
instruments, astronomy		522	Incense	ecclesiology	247	
sacred ornamentation		247	Incest	criminal law	343	
Illusions		133	Inclined plane, canal engineering		626	
Illustrated books	book rarities	096		machines	531	
Illustrations of books	publishing	655	Inclines	railroad engineering	625	
	rare	096	Income, public	finance	336	
Image worship	idolatry	290	tax	"	336	
Images in churches	ecclesiology	246	Incubation, artificial		636	
Imaginaries, calculus of		517	Incunabula	book rarities	093	
Imaginary books		098	Incurables, hospitals for		362	
quantities	algebra	512	Indelible inks, chemical technology		667	
Imagination in art		701	Indemnity	international law	341	
science		501	Independence, American	U. S. hist.	973.3	
mental faculties		155	Independency, church polity		262	
Imbecility	" derangements	132	Independents	sects	285	
Imbecils, asylums for		362	Index error	practical astronomy	522	
education of		371	expurgatorius	book rarities	098	
Immaculate conception of Christ		232	making, literary methods		029	
Mary		230	rerums	" "	029	
Immersion	baptism	265	Indexes, Biblical	concordances	220.2	
baptist doctrins		230	see subj. index			
sect		286	India	antiquities, ancient	913.34	
Immigrants	colonies	325		modern	913.5	
Immigration		325		architecture	ancient	722
Immoral art and literature	ethics	176			Mohammedan	723
Immortality	doctrinal theology	237		botany		581.9
metaphysics		128		British	history	954

Topics in black-faced type are subdivided in tables.

India, Farther	history	959	Industrial education	useful arts	607
	religious history	275.9		exhibitions	606
	geology	555.4		history	609
	history, ancient	934		legislation	polit. econ. 338
	modern	954		museums	606
	religious history	274.4		sanitation	628
	rubber manufactures	678		schools	607
	travel	915.4		statistics	political econ. 331
Indian archipelago	history	991	Industries	chemical technol.	660
	Bureau U. S. admin.	353		useful arts	600
	corn	633	Industry	ethics	179
	agriculture	491	Inebriate asylums	ethics	178
	East, languages	491	Inebriates	temperance	178
	modern languages	491	Infallibility, divine		231
	legends	398		of the church	262
	missions	266		papal eccles. polity	262
	ocean	travels 910		Roman doctrin	230
	philosofers	181		Roman church	282
	religions	299		schism	old catholics 284
	Territory, U. S.	history 976.6	Infancy, psychology of		136
		travel 917.66	Infant baptism		265
	wars	U. S. hist. 973.2		education	elemen. educ. 372
Indiana, U. S.	history	977.2		mortality	public health 614
	travel	917.72		salvation	234
Indians, American		970.1	Infanticide	customs	392
	biografy	970.2		ethics	173
	education of	371		law	343
	language	497	Infantry	army	356
	literature	897	Infants, care of		618
Indic languages		491		food for	hygiene 613
Indicator for steam engines		621.1		nursery	649
Indicators	library economy	025	Infectious diseases	pathology	616
Indictments	criminal law	343		pub. health	614
Indies, East, Dutch	history	991	Infernal machines	explosivs	662
Indigestion	medicin	616	Infidelity		211
Indigo	chemical technology	667	Infinit	metaphysics	125
Individual soul, origin of		129	Infinitesimal calculus		517
Individuals and the state	ethics	172	Infirmaries	hospitals	362
Indo-European languages, minor		491	Inflammation	physiology	612
	literature	891		surgery	617
	Germanic languages	491	Inflation	paper money	332
Indoor amusements		793	Inflection	English philology	425
Indorsement	law	347	Influenza	diseases	616
Induction	electricity	537	Infusoria	zoology	593
	magnetism	538	Infusorial earth	petrografy	552
	reasoning faculty	153	Ingenuity	inventions	608
Inductiv logic		161	Inheritance	law	347
	sciences	500		of soul	metaphysics 129
Indulgencies	Roman church	282	Inherited disease	hygiene	613
	doctrin	230		mental disability	hygiene 613
Industrial arts		600	Injections	collectors' manuals	579
	classes	political econ. 331		medicin	615
	depressions	" " 338	Injectors	steam engine	621.1
	drawing	744	Injured, aid to, protection of life		614.8
	economy	330	Injuries, effects of	diseases	616
	education	371			

Topics in black-faced type are subdivided in tables.

Injuries, surgery	617	Institutions musical	780
torts	347	of credit pol. econ.	332
Injurious animals agriculture	632	patriarchal	321
zoology	591	republican	321
insects agriculture	632	sociology	360
occupations hygiene	613	Instruction education	370
plants botany	581	methods of	371
Ink manufacture	667	Instrumental errors practical astr.	522
Inland navigation canals, etc.	656	music	780
quarantine public health	614	public worship	264
seas physical geography	551	Instrumentation music	781
Inlay architectural decoration	729	Instruments, drawing	744
Innate ideas	156	making	681
Inns architecture	728	for special purposes see subject	
hotels	647	Insular faunas, zoology	591.9
of court English law	340	floras botany	581.9
Inoculation against smallpox	614	Greece ancient history	939
protectiv, pub. health	614	modern "	949.9
Inorganic and organic matter, differ.	577	Insurance	368
chemistry	546	compulsory polit. econ.	331
Inquisition persecutions by	272	law	368
Insane asylum, architecture	725	societies cooperativ	334
criminal, law	340	Insurrections internal relations	323
hospitals	362	Intaglios sculpture	736
lives of	920	Intarsia and inlay arch. decoration	729
Insanity law	347	Integral calculus	517
mind and body	132	Integrity business ethics	174
Inscriptions, comparativ	417	Intellect	151
English language	421	Intellectual development education	370
Insectivora mammals	599	history	809
Insects, fertilization of plants	581	influence of ch.	261
injurious agriculture	632	relation of ch.	377
zoology	591	life self-education	374
metamorfosis	591	philosophy	150
paleontology	565	Intelligence mental science	151
zoology	595	of animals	591
Insessores birds	598	Intemperance ethics	178
Insolvency law	347	Intercommunication, sociology	380
Insomnia disease	616	useful arts	650
hygiene	613	Interdicts excommunication	262
Inspection of buildings	614.8	Interest and usury law	347
explosivs, etc.	614.8	calculation of arithmetic	511
food, etc. pub. health	614.3	political economy	332
Inspiration Bible	220.1	securities finance	336
Installation of ministers	262	tables business manuals	658
Instinct animals	591	Interference optics	535
human	158	Interior decoration	747
Instinctiv knowledge	158	department U. S. admin.	353
Institute of France	064	of earth geology	551
Institutes Roman law	349	Interlude English drama	822
teachers'	370	Intermarriages of families hygiene	613
Institutions Christian	260	races ethics	173
educational	370	Intermediate state theology	236
feudal	321	Interment customs	393
monarchic	321	premature	614

Topics in black-faced type are subdivided in tables.

Interment	public health	614	Iodin	chemistry	546
Intermittent fever	pathology	616	Ionic Greek	dialects	487
	public health	614		order of architecture	729
Intermolecular forces	physics	539		philosophy	182
Internal heat	geology	551	Iowa, U. S.	history	977-7
	improvements	620		travel	917-77
	relations church and state	323	Ipecac	emetics	615
	revenue laws finance	336	Iranian languages		491
International association, the		335	Ireland	antiquities	913-4
	coinage	332		botany	581-9
	congresses	341		geology	554-1
	on special topics see subject			history	941-5
	copyright private law	341		religious history	274-1
		publishing		travel	914-15
	ethics	172		zoology	591-9
	exchange money	332	Iridium	chemistry	546
	exchanges lib."econ.	025	Irish bards	lives	928
	exhibitions	606		bulls Eng. humor	827
	law	341		church, Anglican	283
	standard, money	332		Roman catholic	282
Interoceanic canals	engineering	626		home rule history	941-5
	sociology	386		polit. parties	329
Interstate commerce	commission	385		land question, political econ.	333
	law	385		language	491
Intervention	political science	327		music	784
Intolerance, relig., persecutions		272		politics	329
	state ethics	172	Iron age	prehist. arch.	571
Intonation	music	781		architecture	721
Intoxicating drinks, traf. in, ethics		178		bearing waters economic geol.	553
Intoxication	alcoholism	616		bridge engineering	624
	ethics	178		building material	691
Intransigentes, Spanish history		946		chemistry	546
Intrenchments	military engineering	623		clads naval arch.	623
Intuition	ethics	171		manufacture	672
Intuitionism, philosophic systems		143		mask, man in biography	920
Intuitiv faculty		156		materia medica	615
	philosophy	143		metallurgy	669
Inundations	meteorology	551		mining	622
	protection engineer.	627		ores economic geology	553
Invalids	medicin	616		pipes waterworks	628
Invention of printing		655		roofs building	695
	rhetoric	808		ships	623
Inventions	patents	608		structures arch. con.	721
Inventors' lives		926		water pipes sanitary eng.	628
Invertebrates, paleontology		562		work manufactures	672
	zoology	592	Irony	rhetoric	808
Investiture	ecclesiastical polity	262	Irrigation	agriculture	631
Investitures, war of, 1074-84		270		canal engineering	626
Investments		332		sewage	628
Invincible armada	Spanish history	946	Irritability in plants	botany	581
Invocation of saints and angels		264	Irvingism	catholic apostolic	289
Invoices	accounts	657	Isaiah	Bible	224
Involution	algebra	512	Islam	Mahometanism	297
	arithmetic	511	Islands, isolated	history	997
	geometry	513		physical geography	551

Topics in black-faced type are subdivided in tables.

Isle of Man, England	history	942	James 1	English history	942.06
Wight, "	"	942	2	"	942.06
Isles of Shoals	history	974.2	Jansenism	heresy	273
	travel	917.42	Japan	botany	581.9
Isoeteae	botany	587		chemical technology	667
Isografy		652		geology	555.2
Isomerism	chemistry	541		history	952
Isometric projections	geometry	515		religious history	275.2
Isomorfism	crystallografy	548		travel	915.2
Isothermal lines, physical geografy		551	Japanese architecture		722
Israelites	history, ancient	933		language	495
	modern	296	Japanning	varnishing	698
Issues	therapeutics	615	Jasher, book of		229
Isthmian games	Greek antiquities	913.38	Java	history	992
Italian	cyclopedias	035		travel	919.2
	essays, collected	045	Jealousy	ethics	179
	grand opera	782	Jeanne d'Arc	French history	944
	journalism	075	Jeddo	travel	915.2
	language	450	Jefferson, T., presidency of		973.4
	literature	850	Jehovah	doctrinal theology	231
	newspapers	075	Jelly fish	zoology	593
	painting	759	Jeremiah	Bible	224
	periodicals, general	055	Jeremy, Epistle of	Bible	229
	philosophy	195	Jersey City, N. J.	history	974.9
	republics	321		travel	917.49
	aristocracies	321	Island of	history	942
	history	945		travel	914.2
	school of Greek philosophy	182	Jerusalem	history, ancient	933
	sculpture, medieval	734		St John of knights	929.7
	modern	735		travel	915.6
	societies, general	065	Jesters	customs	394
Italic languages, minor		479	Jests	English literature	827
Italy	ancient history	937	Jesuit missions		266
	antiquities	913.4	Jesuits	religious orders	271
	botany	581.9	Jesus	Christology	232
	geology	554.5		society of religious orders	271
	history	945	Jet	economic geology	553
	reformation in	274.5	Jetties	engineering	627
	religious history	274.5	Jewelry	customs	391
	travel	914.5		manufacture	671
	zoology	591.9		toilet	646
Ivory-carving		736	Jewish architecture		722
supply		679		calendar	529
Jackson, Andrew, presidency of		973.5		history	933
Jacobins	French history	944		language	492
	political clubs	363		literature	892
Jacobite church		281		philosophy	181
Jacobites	Eng. pol. party	329		religion	296
Jacotot's system of education		371	Jews, disabilities of		296
Jacquerie	French history	944		history, ancient	933
Jade	mineralogy	549		modern	296
Jails	prisons	365		restoration of	296
Jaina architecture		722	Job	Bible	223
Jainas	Hindu sect	294	Jockies	horse racing	798
Jamaica	history	972.9	Joel	Bible	224
James, St	epistle	227			

Topics in black-faced type are subdivided in tables.

Joan, King	English history	942.03	Kafirs	history	968
John, St	epistles	227	Kaleidoscope	optics	535
	gospel	226	Kalmucks	description	915
	knights of	929.7		history	950
	Revelation of	228	Kamtchatka	history	957
Johnson, A., presidency of		973.8	Kangaroo	zoology	599
Joinery, ornamental	carpentry	694	Kansas, U. S.	history	978.1
Joint stock companies	law	347		travel	917.81
Jokes	English humor	827		struggle in U. S. hist.	973.6
Jonah	Bible	224	Kant	German philosophy	193
Joshua	Bible	222	Keltic antiquities		913.36
Journalism		070		Druids religion	299
Journalists' lives		920		languages	491
Journeys around the world		910	Kelts	ancient history	936
Jubilee singers of Fisk university		784	Kempis, Thomas à		242
Judaism		296	Kentucky, U. S.	history	976.9
	vs Christian church	239		travel	917.69
Jude	epistle Bible	227	Keramics	art	738
Judea	ancient history	933		chemical technology	666
	antiquities	913.33	Kerosene	" "	665
Judges, book of Bible		222		inspection, protect. of life	614.8
	law courts	347	Keys and locks	manufactures	683
	lives	923		mathematical students' honor	371
Judgment, mental faculties		153	Khiva	travel	915.8
	private, ecclesiastical polity	262	Kidnapping	criminal law	343
	theology	236	Kindergarten	education	372
Judicial chemistry	law	340	Kindness	ethics	177
	combat "	340	Kinematics	physics	531
	control administration	351	Kinetic theory of gases		533
	ordeal law	340	Kinetics	physics	531
Judiciary department	U. S. gov't	353	King Philip's war	history	974
	electiv law	347	Kings bench		347
Judith	Bible	229		book of, Bible	222
Juggernaut		299		daughters	267
Jugglery		791		lives	923
Julian calendar		529		political science	321
Jupiter	astronomy	523	Kinship	genealogy	929
	mythology	292	Kissing	customs	392
Jurassic age	geology	551	Kitchen economy		640
Jurisdiction	civil trials	347		gardening	635
Jurisprudence		340		middens archeology	571
	medical	340	Kitchens	architecture	728
Jury trial	law	340	Kleptomania	mental disease	132
Justice	ethics	179	Knightage	heraldry	929.7
Justices of the peace	law	347	Knights hospitallers		929.7
Justification	doctrinal theology	234		of labor, labor organizations	331
Jute	agriculture	633		Malta	929.7
	manufactures	677		Pythias secret societies	366
Juvenil books, reading and aids		028		Rhodes	929.7
	see subject			St John	929.7
	criminals law	343		Templars	929.7
	literature	028	Knitting	domestic economy	646
	mortality public health	614	Knives	cutlery	672
	reformatories	364		stone	571
Kabala	Jewish filosofy	181	Know-nothing party	U. S. politics	329

Topics in black-faced type are subdivided in tables.

Knowledge, theory of	121	Land grants	finance	336
unity of	121		to public schools	379
Koordistan	travel	law		347
Koran	Mahometanism	laws	political economy	333
Krishna	Buddhism	political	economy	333
Kroatian language	491	public	political economy	333
Kuklux Klan, political associations	363	slides	geology	551
Kurdish language	491	surveying		526
Kurdistan	travels	tenure	law	347
Kurile islands	travel	titles, insurance of		368
Labels in museums	579	Landed gentry	English heraldry	929.7
Labor	laws	Landlord and tenant	law	347
	obstetrics		polit. economy	333
	of children	Landscape	drawing	741
	party		gardening	710
	political parties		painting	758
	political economy		photographs	779
	savers, literary		sketching	741
	statistics	Landtag	German central gov't	354
	political econ.		local	352
Laboratories	architecture	Language		400
	biologic		English, origin of	422
	school equipment		lessons	elemen. educ.
	state adulterations		of flowers	716
Laboratory, chemistry	542		origin of	401
	work, methods of instruch.		sign	deaf and dumb
Laborers' cottages	architecture			hieroglyphics
	occupation			419
hygiene	613		universal	408
Laboring classes	political economy	Lantern, astronomic		523
Labrador	history		magic	optics
Labyrinths	prehistoric archeology	La Plata	history	982
Lace-making			travel	918.2
	art needlework	Larceny	law	343
Laconics	English literature	Lard	adulterations	614.3
Lacquer work, artistic furniture	749		chemical technology	664
	manufactures	Larva	embryology	591
Lacrosse	games	Laryngoscope		616
Lactometer		Laryngotomy	surgery	617
Ladies of the Sacred Heart	271	Larynx	acoustics	534
Lake drainage			anatomy	611
	dwellings	Late hours	hygiene	613.7
	prehistoric arch.	Lath	plastering	693
	states, U. S.	Lathe work	mechanical eng.	621
	history	Latin antiquities		913.37
	travel		biography	920
	surveys		church	282
	geodesy		classics	870
Lakes, artificial, landscape	gardening		epic poetry	873
	physical geography		erotica	874
	water supply		geography	912
Lamaism	294		hymns	hymnology
Lambertypes	773		inscriptions	471
Lamellibranchiata	zoology		language	470
Lamentations	Bible		literature	870
Lampoons	English satire		lyric poetry	874
Lampreys	fishes			
Lamps	chemical technology			
Lancaster and York	Eng. hist.			
	system			
	education			
Land claims	finance			

Topics in black-faced type are subdivided in tables.

- | | | | | |
|---------------------------------------|-----------------------|--------------------------------|------------------|------------|
| Latin, medieval and modern | 479 | Leading | glazing | 698 |
| mythology | 292 | Leagues, law and order | temperance | 178 |
| union | 332 | Learned societies | | 060 |
| Latitude at sea | navigation | Leases | law | 347 |
| determinations | geodesy | Leather manufacture | | 675 |
| finding | 525 | stamp | building | 698 |
| Latter-day saints | Mormonism | Leaves, shapes of | botany | 581 |
| Laughing gas | anesthetics | Lecompton constitution | Kan. hist. | 978.1 |
| Laughter | emotions | U. S. " | | 973.6 |
| hysteria | 616 | Lectern | sacred furniture | 247 |
| Laundry | domestic economy | Lectinary | Anglican ritual | 264 |
| Lava | lithology | Lectures | English oratory | 825 |
| Lavatories | school furniture | for laboring classes | | 331 |
| Law | 340 | halls for | architecture | 725 |
| addresses | 347 | instruction methods | | 371 |
| and miracles | theology | library | | 021 |
| order | leagues | popular education | | 374 |
| temperance | 178 | on special topic see subject | | |
| moral | ethics | Leeches | medicin | 616 |
| of nations | | zoology | | 595 |
| nature | 341 | Legacies | law | 347 |
| special topics see subject | 340 | taxation of | | 336 |
| parish | ecclesiastical polity | Legal anecdotes | | 340 |
| reports | American | bibliograpy | | 016.3 |
| English | 346 | capacity of persons | law | 347 |
| schools | 340 | education | | 340 |
| architecture | 727 | ethics | | 174 |
| Sunday | 263 | hermeneutics | | 347 |
| Lawn-tennis | 796 | maxims | | 340 |
| Lawns | 712 | status of woman | | 396 |
| Laws, building | building | tender | paper money | 332 |
| protection of life | 614.8 | Legends | folk-lore | 398 |
| conflict of | 341 | monastic | | 271 |
| medical license | 614 | mythology | | 291 |
| Laws of language | Eng. etymology | of the Madonna | | 225 |
| Lawyers | ethics | Legerdemain | | 791 |
| lives | 923 | Legislation, American statutes | | 345 |
| Lay ministry | ecclesiastical polity | British | " | 346 |
| Laying out of towns and streets, eng. | 625 | comparativ | | 340 |
| public health | 614 | industrial | | 338 |
| Lazarettos | contagious diseases | library, founding of libs. | | 021 |
| hospitals | 362 | sumptuary, social ethics | | 177 |
| Lazarists | monastic orders | on special topic see subject | | |
| Lead, black | economic geology | Legislativ bodies and annals | | 328 |
| chemistry | 553 | Legitimacy | family law | 347 |
| drugs | 615 | Legs, artificial | surgery | 617 |
| manufacture | 671 | Leinster, Ireland | history | 941.8 |
| metallurgy | 669 | travel | | 914.18 |
| mining | 622 | Lemons | agriculture | 634 |
| ores | economic geology | Lemur | zoology | 599 |
| poisoning | toxicology | Lenses | optics | 535 |
| roofs | building | Lent | church fast | 264 |
| water pipes | 628 | Lenten mass | music | 783 |
| Leading cases, American law | 345 | Lepidoptera | zoology | 595 |
| English | " | Leprosy | pathology | 616 |
| on special subjects see subject | 346 | | | |

Topics in black-faced type are subdivided in tables.

Leprosy	public health	614	Libraries, regulations for readers	024
Letter-writing		808	school education	371
Lettering, ornamental		745	library economy	027
Letters	American literature	816	scope and founding	021
	English alphabet	421	special library economy	026
	literature	826	polygraphy	080
	French	846	Sunday opening, lib. econ.	024
	German	836	theology	263
	Greek	886	Libraries, in sense of series, see subject	
	Italian	856	Library administration	025
	Latin	876	buildings	022
	patent patents	608	architecture	727
	Spanish literature	866	catalogs, author	018
	on special topic see subject		dictionary	019
Lettic languages		491	subject	017
Lettish		491	economy	020
Levant	history	956	gov't and service	023
	travel	915.6	legislation lib. econ.	021
Levees	canal engineering	627	Librettos opera	782
Leveling	geodesy	526	License, local government	352
Lever	mechanics	531	of dentists	pub. health 614
Leviticus	Bible	222	pharmacists	" " 614
Lex mercatoria	law	347	physicians	" " 614
Lexicography, comparativ		413	taxation	336
	English language	423	temperance	178
Lexicons	see language		Licenses, maritime commerce	387
	on special topics see subject		Lichens botany	589
Libel	law	347	Lieder vocal music	784
Liberal Christianity	rationalism	211	Lien laws	347
	unitarianism	288	Life, biology	570
Liberality	ethics	179	boats protection of life	614.8
Liberty, civil	law	374	ship-building	699
	political science	323	conditions of biology	577
	ecclesiastical polity	262	contingencies, probabilities	519
	metaphysics	123	elixir of alchemy	540
	of conscience eccles. pol.	262	ethics	179
	press	323	future doctrinal theology	237
	will mental faculties	159	natural	" 218
	personal doctrin	233	insurance	368
	law	347	probabilities	519
	pol. science	323	metaphysics	111
	salvation	234	origin of biology	576
	religious church	261	preservers protection of life	614.8
	state ethics	172	properties of living matter	577
Librarian, duties, etc.		023	protection of, from accidents	614.8
Librarians' lives		920	saving service, protection of life	614.8
Libraries, architecture		727	transportation	656
	lib. economy	022	tables life insurance	368
	for work'g class. pol. econ.	331	Light and air hygiene	613
	lib. econ.	027	effect on plants	581
	free public	027	electric engineering	621.3
	history	027	physics	537
	imaginary book rarities	098	houses engineering	627
	parochial library econ.	027	navigation	656
	parish work	257	optics	535

Topics in black-faced type are subdivided in tables.

Light houses	protection of life	614.8	Litany	church service	264	
infantry	military science	356	Literary addresses		804	
of earth		525		on special topics see topic		
moon, stars and sun		523		clubs self-education	374	
optics		535		criticism, art of	801	
polarization of		535		with thing criticized see subject		
therapeutics		615		esthetics	801	
zodiacal astronomy		523		frauds and forgeries	809	
Lighting, electric	engineering	621.3		history	809	
	physics	537		institutions colleges	378	
	library buildings	022		men's lives	928	
Lightning and lightning rods		537		methods library economy	029	
shock surgery		617		miscellanies, English	828	
Lights and fuel	domestic economy	644		occupations hygiene	613	
	shades drawing	742		periodicals	805	
	perspectiv	515		property law	347	
	chemical technology	665			publishing	655
	ecclesiology	246		societies student life	371	
Lignite	economic geology	553		style rhetoric	808	
Lima	history	985	Literature		800	
	travel	918.5		bibliografy of	016.8	
Limbo	eschatology	236		biografy of	928	
Limbs	artificial	617		classical, Greek & Latin	880	
Limbus infantum	eschatology	236		immoral ethics	176	
	patrum "	236		lib. econ.	025	
Lime	building	691		medieval	800	
Limes	building material	691		modern	800	
	chemical technology	666		woman delineated in	396	
	economic geology	553	Lithografy	engraving	763	
Limestone	economic geology	553	Lithology	geology	552	
	lithology	552	Lithuanian language		491	
Lincoln, A., presidency of		973.7	Little sisters of the poor		271	
Lincrusta	paper-hanging	698	Liturgies		264	
Line engraving		765	Live stock	agriculture	636	
Linear perspectiv		515	Liverworts	botany	588	
Linen manufacture		677	Lives	Amer. Indians	970.2	
Lines	analytic geometry	516		biografy	920	
	descriptiv "	515		gipsies	397	
	geometry	513		slaves	326	
Linguistics		400	Living, cost of		647	
Linguists' lives		924		matter, properties of	577	
Linnaean system	botany	580	Livonian language		491	
	zoology	590	Lizards	reptils	598.1	
Lions	zoology	599	Loadstone	economic geology	553	
Liquefaction	heat	536		magnetism	538	
Liquid wastes, indus. sanitation		628	Loan institutes	polit. economy	332	
Liquids	physics	532		systems library "	025	
Liquor laws	temperance	178	Loango, Africa	travel	916.7	
Liquors	manufacture	663	Loans	finance	336	
	taxation	336	Lobsters	zoology	595	
	traffic in, temperance	178	Local government	administration	352	
	use of "	178		histories, see name of place		
Lisbon	history	946.9		option	178	
	travel	914.69		taxes finance	336	
Litanies	sacred music	783	Location of library buildings		022	

Topics in black-faced type are subdivided in tables.

Locke, J: sensational philosophy	145	Lower Silurian group	geology	551
Locks and keys	manufacture	Loyalty	state ethics	172
canal engineering	626	Lubrication	mechan. engineering	621
Locomotion	animal comp. anat.	Lucernariae	zoology	593
	communication	Lucretius	ancient philosophy	187
	physiology	Luke	gospel	226
Locomotives	mech. engineering	Lumber	building material	691
	railroading		manufacture	674
Locusts	economic zoology	Lunacy	law	347
	pests		mind and body	132
Lodestone	economic geology	Lunar caustic, therapeutics		615
	magnetism	methods of finding longitude		525
Lodging houses for poor		tables		523
Log book	seamanship	Lunatic asylums		362
Logarithms		Lungs, admin. of med. by		615
Logging	timber trade	anatomy		611
Logic		diseases of		616
Logical catalogs		functions of	physiol.	612
machines		Luray caverns, description		551
Logos	Christology	Lusitania	history	946.9
Lollards, religious sect		Lute	stringed instruments	787
Lombard street	banking	Lutheran church		284
London, England	history	confession	creeds	238
	travel	Lutherans' lives		922
Longevity	life insurance	Luxury	hygiene	613
	physiology	Lycantrophy	insanity	132
	probabilities	Lyceum	Greek philosophy	185
	statistics	Lyceums	self-education	374
Longitude at sea	navigation	Lycopodinae	botany	587
	determinations	Lying	ethics	177
	geodesy	Lying-in hospitals		362
	methods of finding	Lynch law		343
	theoretic astronomy	Lyrical poetry, Greek		884
Loo-choo islands	travel	Latin		874
Loom, power	manufactures	Mabinogion	Welsh literature	891
Lord chancellors' lives		Macaronics	English literature	827
Lord's day		Maccabees	Bible	229
prayer		Machine engraving		768
supper	sacraments	guns	military engineering	623
Lost books	book rarities	Machinery	engineering	621
	library economy		in industry	pol. econ. 338
Lotteries	ethics	Machines	hydraulic	532
	history of		mechanics	531
Lotus	Egypt. religion	Mackerel fishery		639
Louisiana, U. S.	history	Madagascar	geology	556.9
	travel		history	969
Louvre gallery, art galleries			religious history	276.9
Love	ethics		travel	916.9
	feasts	Madeira islands	history	946
	pub. worship	Madhouses		362
	of God	Madness	mind and body	132
	theology	Madonna in art		709
Low countries	history	mariolatry		230
Dutch language		Madrid	travel	914.6
German literature		Madrigal	music	784
Latin language				
literature				
Lower empire	Byzantine			

Topics in black-faced type are subdivided in tables.

Magazine guns	see Rifles	
Magazines	general periodicals	050
	literary	805
	special subject	see subject
Magellan straits	travels	918.2
Magic lanterns, optics		535
	natural	133
Magicians	lives	920
Magistrates	law	347
Magna charta	constitutional history	342
	English history	942.03
Magnesium	chemistry	546
Magnetic telegraf		654
Magnetism		538
	animal, mind and body	134
	terrestrial	538
Magneto-dynamos	electricity	537
Magnets	properties of	538
Magnifiers	optics	535
Magyar language		494
Magyars	history	943.9
Mahabharata	Sanskrit literature	891
Mahometanism		297
Mails	post-office	383
Maine, U. S.	history	974.1
	travel	917.41
Maine law	temperance	178
Maize	agriculture	633
Majolica	pottery	738
Malachi	Bible	224
Malacology		594
Malacostraca	zoology	595
Malaria	hygiene	613
	marshes	614
Malarial fever, diseases		616
	public health	614
Malarious soils	" "	614
Malay archipelago	history	991
	travel	919.1
	Polynesian languages	499
	literatures	899
Malaysia	geology	559.1
	history	991
	religious history	279.1
	travel	919.1
Malformations, animal	comp. anat.	591
	human, deformities	617
	nat. hist. of man	573
	vegetable botany	581
Malleability	molecular physics	539
Malpractice	law	343
	public health	614
Malt liquors	brewing	663
Malta	history	945
	knights of	929.7
Malthusianism	population	312
Mamelukes	Egyptian history	962
Mammalia	paleontology	569
	zoology	599
Mammoth	paleontology	569
	cave physical geography	551
	zoology	599
Man, antiquity of	prehist. arch.	571
	nat. hist. of man	573
	doctrinal theology	233
	ethnography	572
	in the iron mask biography	920
	Isle of history	942
	mammals	599
	mental characteristics	136
	faculties	150
	natural history of	573
	origin of evolution	575
	nat. hist. of man	573
	natural theology	213
	physiology of	612
Management, library economy		025
	of state properties	336
Manasses, prayer of	Apocrypha	229
Mandolin	stringed instruments	787
Manganese, chemistry		546
	ores economic geology	553
Mania, mind and body		132
Maniacs	lives	920
Manicheism	heresies	273
Manipulation	practical chemistry	542
Manitoba, Canada	history	971
Manly exercises	outdoor sports	796
Manners and customs, general		390
	for local see special countries	
Manometer	pneumatics	533
Manor houses, architecture		728
Manors	political economy	333
Mansard roofs, arch. construction		721
	design	729
Mansions	architecture	728
Manslaughter	law	343
Mantels	fixt furniture	729
Manual training	education	371
Manuals, business commerce		658
	collectors' biology	579
	legislative U. S.	328
	special see subject	
Manufactories	architecture	725
Manufacture of explosivs	protection	
	of life	614.8
Manufactures		670
	chem. technology	660
	production	338
	public health	614

Topics in black-faced type are subdivided in tables.

Manufacturing works	engineering	621	Marquetry	cabinet work	684
Manures	agriculture	631	Marriage	customs	392
	sewage	628		ethics	173
Manuscript catalogs	library econ.	025		law	347
Manuscripts	book rarities	091		registers	genealogy 929
	copyright	655		sacrament	265
	diplomats	417	Mars	planets	523
	Latin diplomats	471	Mars' seasons	astronomy	525
Manx language		491	Marshes, hygiene of	public health	614
Map cases	library admin.	025		physical geology	551
	drawing in schools	910	Marsupialia	mammals	599
	projection, geodesy	526	Martial law		344
Maps		912	Martyrs	persecutions	272
	astronomic, general	524	Mary, blessed virgin, Rom. cath. doc.		230
	moon, planets, star, or sun	523		queen of Eng.	Eng. history 942.05
	school apparatus	371	Maryland, U. S.	history	975.2
Marathi language		491		travel	917.52
Marble	economic geology	553	Masks	dramatic music	782
	inscriptions	417	Mason and Dixon's line	slavery	326
		Greek 481	Masonry, anti	secret societies	366
		Latin 471		building	693
	lithology	552	Masons	secret societies	366
	sculpture	731	Masquerades	amusements	793
	working	693		social customs	394
Marian persecutions in England		272	Mass	Rom. catholic ritual	264
Marine animals		591.9		law of gravity	531
	architecture	naval eng. 623		of earth	525
	corps	navy 359		recitative music	784
	engines	621.1		sacred	" 783
	insurance	368	Massachusetts, U. S.	history	974.4
	law	347		travel	917.44
	plants	581.9	Massage	therapeutics	615
Mariners' compass	magnetism	538	Mastmaking	ship-building	699
	occupation	hygiene 613	Master and servant	family ethics	173
Mariolatry	worship of Virgin	230		law	347
Marionnets	amusements	791	Mastersingers	German poetry	831
Maritime affairs	naval science	359	Mastodon	paleontology	569
	discovery	910	Matches	chemical technology	662
	law	347	Materia medica		615
	quarantine	public health 614	Materialism	philosophy	146
	surveying	526	Materials	building	691
Mark gospel		226		for clothing	hygiene 613
Market gardening	agriculture	635		library bookbinding	025
Markets	architecture	725		buildings	022
	domestic economy	641		strength of, engin.	620
Marking system	education	371		molec. physics	539
Marks	political science	321	Maternity	ethics	173
Marl	lithology	552		hospitals	362
Maronites	sects	281		medicin	618
Maroons	history of Jamaica	972.9	Mathematical	drawing	744
Mar-prelate controversy	puritans	285		instruments	510
	Anglican ch.	283		probabilities	519
Marque and reprisals	intern. law	341		tables	510
Marquetry	artistic furniture	749		of music	781
				tides	525

Topics in black-faced type are subdivided in tables.

Mathematicians' lives	925	Mechanism engineering	621
Mathematics	510	Medallions numismatics	737
Matins church ritual	264	Medals carving	736
Matriculation schools	371	numismatics	737
Matter metaphysics	117	Media ancient history	935
physics	530	Medical analysis chemistry	543
properties of living	577	biography	926
Matthew gospel	226	botany econ. botany	581
Mauritius geology	556.9	materia medica	615
history	969	diagnosis	616
religious history	276.9	education	610
travel	916.9	state control of	614
Mausoleums	718	electricity, physics	537
Maxima and minima algebra	512	therapeutics	615
calculus	517	ethics	174
geometry	513	jurisprudence	340
Maxims English literature	828	museums	610
law	340	police	614
on special topic see subject		practice pathology	616
Maya architecture	722	state control of	614
language	497	schools	610
Mayor local gov't	352	societies	610
Mazurka piano music	786	testimony	614
Meals domestic economy	642	zoology	591
Mean time solar and sidereal day	529	Medicin	610
value probabilities	519	chemical analysis	543
Measles diseases	616	economic botany	581
public health	614	zoology	591
Measurements, electric	537	preventiv, pub. health	614
practical chemistry	542	state control of, pub. health	614
Measures and weights, meteorology	389	veterinary	619
Measuring instruments "	389	Medicinal use of stimulants temperance	178
physics	530	Medicines therapeutics	615
of angles, crystallography	548	patent public health	614.3
heat	536	Medico-legal relations	614
light optics	535	Medieval architecture	723
surveying	526	art, history of	709
Meat, inspection of, pub. health	614.3	customs and costumes	390
preservation of chem. tech.	664	designs	745
supply domestic economy	641	Europe history	940
production	338	Latin	479
Meats as food hygiene	613	philosophy	189
Mechanic arts and trades	680	science	502
Mechanical drawing	744	sculpture	734
engineering	621	Meditations theology	242
equivalent heat	536	Mediterranean sea physical geology	551
musical instruments	789	travel	910
remedies therapeu.	615	Mediums spiritualism	133
trades	680	Medo-Persia ancient history	935
training	607	antiquities	913.35
in schools	371	Medusae zoology	593
Mechanics physics	531	Meekness ethics	179
Mechanics' institutes exhibitions	606	Meerschau econ. geol.	553
liens law	347	Megaric philosophy	183
lives	926	Megatherium paleontology	569

Topics in black-faced type are subdivided in tables.

Melancholy	mind and body	132	Meridional instruments	522
Melanesia	history	993	Merino sheep	domestic animals 636
	travel	919.3	Mermaids	folk-lore 398
Melbourne	history	994	Mesmerism	mind and body 134
	travel	919.4	Messenger service	385
Meliorism	philosophic systems	149	Messiah	doctrinal theology 232
Melodeon	music	786	Metafors	rhetoric 808
Melody	theory of music	781	Metallic ores	econ. geol. 553
Memoirs	biografy	920	poisons	therapeu. 615
	scientific societies	506	tractors	cures 615
Memorial day	U. S. civil war	973.7	Metallurgy	669
	sermons biografy	920	Metals	building materials 691
	sermons	252		coinage 332
Memory in animals	zoology	591		history 669
	mental derangements	132		inorganic chemistry 546
	faculties	154		manufactures 671
Menageries	amusements	791		mining 622
	zoology	590		organic chemistry 547
Meningitis	diseases	616		transmutation of 540
Mennonite church		289	Metamorphic rocks	geology 552
Mensuration	arithmetic	511	Metamorfism	physical geology 551
	surveying	526	Metamorfosis	botany 581
Mental capacity of women, education		376		of insects 595
	mind and body	136		zoology 591
	characteristics	136	Metaphysics	110
	derangements	medicin 616	Metempsychosis	metaphysics 129
		mind and body 132	Meteoric showers	astronomy 523
	development	education 370	Meteorites	lithology 552
	disability, inherited	hygiene 613	Meteorology	551
	faculties	150		natural history of man 573
		of animals zoology 591	Meteors and comets	astronomy 523
	healing	615	Meter	weights and measures 389
	heredity	mind and body 136	Meters	Eng. prosody 426
	hygiene	131		water 628
	overwork	mental hygiene 131	Method of exhaustions	calculus 517
	philosofy	150		least squares orbits 521
	photografs	139		probabil. 519
	physiology	mind and body 131	Methodist church	287
	science	150		episcopal church 287
Mercantil law		347	Methodists' lives	922
	libraries	027	Methodology	metaphysics 112
	manuals	658	Methods, literary	lib. econ. 029
	rules	arithmetic 511		of education 371
	theory and practice	658		statistics 311
Merchant service, ocean trans., sociol.		387		in special topics see subject
Merchants	business ethics	174	Metric system	intern'l measures 389
	lives	923	Metrology	389
Mercury	chemistry	546	Mexican Indians	970.1
	materia medica	615		war U. S. history 973.6
	metallic poisons	615	Mexico	antiquities 913.7
	metallurgy	669		botany 581.9
	ores	economic geol. 553		geology 557.2
	planets	523		gulf of phys. geol. 551
Mercy, sisters of		271		history 972
Meridian line	astronomy	522		religious history 277.2

Topics in black-faced type are subdivided in tables.

Mexico	travel	917.2	Milk dairy		637
Mezzotint		766	Mill dams	hydraulic eng.	627
Mica	economic geology	553		water engines	621
Micah	Bible	224		work engineering	621
Michigan, U. S.	history	977.4	Millennium	theology	236
	travel	917.74	Millerites		289
Microbes	botany	589	Millinery	clothing	646
	etiology	616	Milling tools		621
Microfone		537	Mills and manf. works	engineer'g	621
Micrometers	astronomy	522		architecture	725
Micronesia	history	996		cotton, woolen, etc.	677
Micro-organisms	theory of disease	616		paper manufactures	676
Microphotografy	microscopy	578	Milwaukee, Wis.	history	977.5
	photografy	778		travel	917.75
Microscopes		578	Mimetic arts		792
	optics	535	Mimicry		177
Microscopic analysis of water		613	Mind		150
"	life invertebrates	592		and body	130
Microscopy		578		cure therapeutics	615
	animal histology	591		in animals zoology	591
	lithology	552		readers' lives	920
	study of disease	616		reading mesmerism	134
	vegetable histology	581	Mineral cements	chem. technology	666
Microtome	microscopy	578		economic geology	553
Middens and privies	scavenging	628		irritant poisons, therapeu.	615
	kitchen prehist. arch.	571		oils chemical technology	665
Middle ages	European history	940		economic geology	553
	high German language	437		springs economic geol.	553
	poetry	831		surveys	622
	states, U. S. history	974		veins ore deposits	553
Middlesex, England	"	942.1		waters adulterations	614.3
Midlands,	"	942		artifi. chem. tech.	663
Midwifery	obstetrics	618		economic geology	553
Migrations of animals		591		hygiene	613
	men ethnology	572		therapeutics	615
Mildew	botany	589	Mineralogy		549
Military academies, e. g. West Point		355		of the Bible	220.8
	and naval arts	355	Minerals	rock determination	552
	antiquities	355	Mines	military engineering	623
	biografy	923		mining	622
	engineering	623		ownership, political economy	333
	history	355	Miniatures	painting	757
	Amer. civil war	973.7	Minima and maxima	algebra	512
of special countries see country				calculus	517
	law	355		geometry	513
	organization in schools	371	Mining companies	mining eng.	622
	pensions	351		dangers and accidents, eng.	622
	religious orders	929.7		engineering	622
	science	355		laws	622
	signals	623		products political economy	338
Militia		355	Minister	eccles. polity	262
Milk analysis	adulterations	614.3	Ministers	foreign government	354
	chemistry	543		lives	922
	and its products adult.	614.3		U. S. government	353
	condensat	637	Ministration to sick and dead		265

Topics in black-faced type are subdivided in tables.

Ministries of state	architecture	725	Mithraic worship	295
Ministry	ecclesiastical polity	262	Miter	sacred ornaments 247
	lay	262	Mixt drinks	adulterations 614.3
	parish work	258		chemical tech. 663
	religion	250	Mnemonic derangements	132
Minnesingers	German poetry	831	Mnemonics	154
Minnesota, U. S.	history	977.6	Moabite stone	492
	travel	917.76	Modeling	sculpture 731
Minority representation	polit. sci.	324	Models	art study 707
Minors	law	347	Modern architecture	724
Minstrelsy	English poetry	821		costumes and customs 390
	negro vocal music	784		Greek language 489
Mints	political economy	332		literature 889
Minute books	curiosa	099	history	940-999
Miocene period	geology	551	Persian languages	491
Miracle plays	Eng. literature	822	philosophers	190
	general history	809		lives 921
	religion	244		sculpture 735
	theater	792	Modesty	ethics 179
Miracles	doctrins	231	Moguls	Indian history 954
	New Testament	226	Mohammedan	architecture 723
	post-biblical	231	Mohammedanism	297
Mirage	optics	535	Moisture	hygiene 613
Mirrors	"	535		physical geograpy 551
Miscegenation	ethics	173		soil public health 614
	hygiene	613		therapeutics 615
	law	347	Molasses	chemical technology 664
Miscellanies	see subjects		Mold	fungi 589
Miscellany	American literature	818	Moldavia, Turkey	history 949.8
	English	" 828		travel 914.98
	French	" 848	Molecular physics	539
	German	" 838	Molecules	theoretic chemistry 541
	Greek	" 888	Moles	zoology 599
	Italian	" 858	Molinists	heresies 273
	Latin	" 878		persecution 272
	Spanish	" 868	Mollusca	paleontology 564
Misers' lives		920		zoology 594
Mishna	Judaism	296	Molluscoidea	594
Missals	illuminated	096	Molly Maguires	labor organizations 331
	Rom. catholic ritual	264	Moluccas	history 991
Missing link	origin of species	575	Moments	statics 531
Missionaries' lives		922	Monachism	theology 271
Missionary schools		377	Monaco	history 944
Missions		266	Monarch	foreign governments 354
	music for sacred music	783	Monarchic institutions	321
	parish	269	Monarchs' lives	923
Mississippi, U. S.	history	976.2	Monarchy	321
	travel	917.62	Monasteries	architecture 726
	bubble loan institutes	332		theology 271
	river description	917.7	Monastic orders	" 271
	valley	" 917.7		schools education 377
Missouri, U. S.	history	977.8	Monetary congresses	332
	travel	917.78	Money	332
	river, description	917.78		making commerce 658
Mites	zoology	595		ethics 174

Topics in black-faced type are subdivided in tables.

Money	paper	332	Morals and church	261
Mongolian languages		495	history of	ethics 170
Mongols	history	950	laboring classes	polit. econ. 331
Monism	philosophy	147	of the press	ethics 179
Monitorial system of education		371	war	" 172
Monitors, iron clads	naval eng.	623	Moravia	history 943-7
school government		371	Moravian brethren	sects 284
Monkeys	zoology	599	language	491
Monks and nuns	relig. orders	271	Morbid anatomy	616
Monocotyledonae	botany	584	Morea	history 949-5
Monogamy	family ethics	173	Moresnet	" 949-3
hygiene		613	Morfology	animals 591
Monograms	design	745	comparativ	philology 415
Monoliths	prehistoric arch.	571	English language	425
Monomania	insanity	132	plants	581
Monopolies		338	Morganatic marriage	ethics 173
state, e. g. tobacco in France		336	customs	392
Monotremata	mammals	599	Mormonism	298
Monroe, J., presidency of		973-5	Morning prayer	church ritual 264
Monroe doctrin	foreign relations	327	family devotions	249
Monsoons	meteorology	551	personal religion	248
Monstrosities,	animal	591	Morocco	geology 556-4
human dwarfs, etc.		573	history	964
vegetable		581	religious history	276-4
Mont Blanc	travels	914-4	travel	916-4
Mont Cenis tunnel		622	Morphin habit	ethics 178
Montana, U. S.	history	978-6	Mortality, law of	insurance 368
travel		917-86	statistics	312
Montanism	heresies	273	public health	614
Montenegro	history	949-7	Mortar	building material 691
travel		914-97	Mortars	chemical technology 666
Months, names of		529	ordnance	623
Montreal	history	971	prehistoric archeol.	571
travel		917-1	Mortgages	law 347
Monts de piété	loan institutes	332	Mortification	surgery 617
Monuments	antiquities	913	Mortmain	law 347
cemeteries		718	Mortuary buildings, architecture	726
prehistoric		571	customs	393
Moon	astronomy	523	designs	sacred ornaments 247
charts		523	Mosaic law	Old Testament 222
effect on tides		525	work	747
maps	observations	524	Mosaics	arch. decoration 729
Moorish architecture		723	floors and flooring	721
Moot courts		340	religious ornaments	247
Moraines	glaciers	551	Moslems	297
Moral agency, free, doctrinal theology		233	Mosques	architecture 726
education		377	Mosquito shore, Cent. Amer., history	972-8
expectations	probabilities	519	Mosquitos	zoology 595
government in schools		371	Mosses	botany 588
heredity	doctrin	233	sea algae	589
metaphysics		129	Motet	sacred music 783
philosophy		170	Mother	ethics 173
science	ethics	170	Goose folk-lore	398
sentiment	"	171	maternity	618
systems		171	Moths	domestic economy 648

Topics in black-faced type are subdivided in tables.

Moths	economic zoology	591	Museums, arrangement of specimens	579
	zoology	595	art fine arts	708
Motion, beginnings of	origin of life	576	medical	610
in medicin	massage	615	school	371
laws of	astronomy	521	scientific natural science	507
metaphysics		116	Sunday opening	263
of earth	astronomy	525	other museums see subject	
	liquids hydraulics	532	Mushrooms	botany 589
	plants botany	581		food 641
	solar system	523	Music	780
Mottos	English literature	828	box mech. instruments	789
Mould	fungi	589	copyright	655
Mound builders	prehistoric arch.	571	ecclesiology	246
	U. S. history	973.1	halls architecture	725
Mounds	prehistoric arch.	571	public worship	264
Mountain railways		625	therapeutics	615
	resorts hygiene	613	Musical form	781
Mountains, attraction of, geodesy		526	instruments	780
	in moon	523		acoustics 534
	physical geograpy	551	sounds	" 534
Mounting specimens, collec. manuals		579	Musicians' lives	927
Mourning	customs	393	Muskets	see Rifles
Movables	chattels	347	Mustelidae	zoology 599
Movement cure		615	Muster rolls	355
Movements of plants	botany	581	Mutilations of library books	024
Mowers	agriculture	633		war customs 399
Mucilage manufacture		668	Mutiny	maritime law 347
Muck	agriculture	631	Mutual aid societies	pol. economy 334
Mud architecture		693		insurance " 334
Mudie's circulating libraries		027	Mycenae	ancient history 938
Muggletonians	sects	289	Mycology	botany 589
Mulberry	agriculture	634	Myopia	eye diseases 617
	silk culture	638	Mysteries	133
Mule	domestic animals	636	Mystery plays	Eng. literature 822
	zoology	599		history 809
Multiple stars		523		religion 244
Multiplex telegrafs	commun.	654		theater 792
Mummies		393	Mystic philosophers	189
Mumps	diseases	616	Mysticism	heresies 273
	public health	614		philosophy 149
Municipal bonds	political economy	332	Mystics	medieval 189
	government, admin.	352	Mythology, comparativ	291
	law	340		German 293
	admin.	352		Greek and Roman 292
Munitions of war	military eng.	623		Norse 293
Munster, Ireland	history	941.9	Myths	291
	travel	914.19	Myxomycetes	botany 589
Mural decorations	architecture	729	Nahum	Bible 224
Murder	criminal law	343	Names of days of week	529
Muscle-reading		134		months 529
Muscular exercise	hygiene	613.7		persons and places 929
	sense mental faculties	152	Nantes, edict of	religious history 272
	physiology	612	Napkins	customs 394
Museums and libraries		021	Naples, Italy	history 945
	architecture	727		travel 914.5

Topics in black-faced type are subdivided in tables.

- | | | | |
|------------------------------------|-------|------------------------------------|--------|
| Napoleon, code law | 349 | Naval battles | 359 |
| Narcotic poisons therapeutics | 615 | see also special countries | |
| Narcotics, action of hygiene | 613 | biography | 923 |
| and stimulants ethics | 178 | engineering | 623 |
| Narrow-gage railways | 625 | history | 359 |
| Nasmith societies | 267 | Amer. civil war | 973.7 |
| Natal, Africa history | 968 | see also special countries | |
| travel | 916.8 | men, lives of | 923 |
| Natatores birds | 598 | schools, e. g. Annapolis | 359 |
| National aid to education | 379 | science | 359 |
| and state universities | 378 | ship-building | 699 |
| " " state educ. | 379 | war | 359 |
| banks | 332 | Navarre history | 946 |
| churches <i>vs</i> organic unity | 261 | Navies | 359 |
| costumes | 391 | Navigation astronomy | 527 |
| customs, special | 390 | laws | 347 |
| debt finance | 336 | signals in, communicat. | 654 |
| libraries | 027 | useful arts | 656 |
| music | 786 | Navigators' lives | 923 |
| parks | 711 | Navy administration | 359 |
| politics | 329 | department, U. S. | 353 |
| school supervision | 379 | Near sightedness medicin | 617 |
| soldiers' cemeteries | 719 | schools | 371 |
| songs music | 784 | Nebraska, U. S. history | 978.2 |
| Nations, law of, international law | 341 | travel | 917.82 |
| Nativ Americans political parties | 329 | Nebulae astronomy | 523 |
| Natural body doctrinal theology | 233 | Nebular hypothesis " | 523 |
| gas chem. technology | 662 | Necessity metaphysics | 123 |
| economic geology | 553 | Necrology biography | 920 |
| heating | 697 | colleges | 378 |
| history, Biblical | 220.8 | Necromancers | 133 |
| collectors' manuals | 579 | Needle-work | 746 |
| of countries | 508.3 | domestic economy | 646 |
| man | 573 | Negro education | 371 |
| zoology | 590 | race ethnology | 572 |
| law | 340 | nat. hist. of man | 573 |
| magic | 133 | political standing | 324 |
| philosophy | 530 | slavery | 326 |
| religion | 210 | songs music | 784 |
| science | 500 | Nehemiah Bible | 222 |
| bibliography of | 016.5 | Neighborhood gilds social clubs | 367 |
| biography of | 925 | Nemean games Greek antiquities | 913.38 |
| selection evolution | 575 | Néo-Grec architecture | 724 |
| stone building material | 691 | Neolithic age prehist. archeol. | 571 |
| theology | 210 | Neology rationalism | 211 |
| Naturalists' lives | 925 | Neoplatonism | 186 |
| Naturalization | 325 | Neoplatonists, apologetics against | 239 |
| suffrage | 324 | Nepotism civil service | 351 |
| Nature | 500 | Neptune descriptive astronomy | 523 |
| law of | 340 | Nervous functions of animals | 591 |
| metaphysics | 113 | physiology | 612 |
| of being metaphysics | 111 | prostration | 616 |
| printing | 655 | system, comp. anatomy | 591 |
| Nautical astronomy | 527 | human " | 611 |
| Naval architecture engineering | 623 | Nestorian church | 281 |

Topics in black-faced type are subdivided in tables.

Netherlands	history	949.2	Ngami lake	travel	916.7
	travel	914.92	Niagara Falls	description	917.47
Nets for collectors	biology	579	Nicaragua	history	972.8
Neuralgia	diseases	616		travel	917.28
Neuroptera	insects	595	Nicene, Ante-, church	A. D. 100-325	281
Neuroses	diseases	616		councils religious history	270
Neuters	generation of animals	591		creed	238
Neutrality	international law	341		Post-, church A. D. 325-1054	281
Nevada, U. S.	history	979.3	Nickel	coinage pol. econ.	332
	travel	917.93		inorganic chemistry	546
New Brunswick, Canada	history	971		ores economic geol.	553
	church, Swedenborgian	289	Nicobar islands	history	992
England	geology	557.4	Niello-work	arch. decoration	729
	history	974	Niger river	description	916.6
	religious history	277.4	Night-soil	air pollution	614
	travel	917.4	Nihilism	philosophy	149
France, Canada	history	971		socialism	335
	travel	917.1	Nile	description	916.2
Granada, S. A.	geology	558.6	Nineveh	ancient history	935
	history	986		cuneiform lang.	492
	religious history	278.6	Nirvana	oriental philosophy	181
	travel	918.6	Nitrogen compounds	air pollution	614
Guinea	geology	559.5	Nitroglycerin	chemical tech.	662
	history	995	Nobility	heraldry	929.7
	religious history	279.5	Nobles' lives		923
	travel	919.5	Nomads		397
Hampshire, U. S.	history	974.2	Nomenclature, botany		580
	travel	917.42		theoretic chemistry	541
Hebrides, Australia	history	993	Nominalism	philosophy	149
Holland, Australia	"	994	Non-Christian religions		290
	travel	919.4		and education	377
Jersey, U. S.	history	974.9	Non-Euclidean geometry		513
	travel	917.49	Non-jurors	Eng. religious history	274.2
Jerusalem church		289	Nonconformists	Eng. relig. hist.	274.2
Mexico, U. S.	history	978.9		sects	283
	travel	917.89	Normal schools		370
Platonism		186	Norman architecture		723
Plymouth colony	history	974.4		conquests European hist.	940
South Wales	"	994	Normandy, France	history	944
Sweden, Penn.	"	974.8		Norse "	948
	travel	917.48	Normans, England	"	942.02
Testament		225	Norrland, Sweden	"	948.8
	biography	225		travel	914.88
	Greek dialects	487	Norse language		439
year	customs	394		literature	839
York, U. S.	history	974.7		mythology	293
	travel	917.47	Norsemen	Scandinavian hist.	948
Univ. of the State of		379	North Africa	geology	556.1
Newfoundland	history	971		history	961
News rooms and reading rooms, free		027		religious history	276.1
Newspaper cuttings	preservation	029		travel	916.1
Newspapers	ethics	179	America	antiquities	913.7
	general	070		geography	917
	history of journalism	070		geology	557
Newt	zoology	598		history	970

Topics in black-faced type are subdivided in tables.

North America	languages	497	Novel reading	reading and aids	028
	religious history	277		writing	808
	scientific travels and		Novelists' lives, English		928
	surveys	508.7	Novels	English literature	823
	statistics	317		religious	244
	travel	917	Noxious materials, air pollution		614
	American Indian literature	897		vapors hygiene	613
Atlantic states, U. S.	geology	557.4	Noxiousness of animals, economic		
	history	974		zoology	591
	relig. hist.	277.4	Nubia, Egypt	history	962
	travel	917.4		travel	916.2
Carolina, U. S.	history	975.6	Nuisances	law	347
	travel	917.56		public health	614
Central Africa	geology	556.6	Nullification in South Carolina		973.5
	history	966		U. S. constitut. law	342
	religious hist.	276.6	Number	metaphysics	119
	travel	916.6	Numbering machines	printing	655
states, U. S.	geology	557.7	Numbers, book of	Bible	222
	history	977		shelf library econ.	025
	relig. hist.	277.7		theory of algebra	512
	travel	917.7	Numismatics		737
Eastern boundary, U. S.	history	973.5	Nuns and nunneries		271
	passage	919.8	Nursery	domestic economy	649
Dakota, U. S.	history	978.4		food hygiene	613
	travel	917.84		lore folk-lore	398
pole travel		919.8	Nurses	physiological zoology	591
west boundary		973		training of	610
	passage travel	919.8	Nursing	domestic economy	649
territory, U. S.	hist.	977		medicin	610
	travel	917.7	Nusairian religion		297
Northern lights	aurora borealis	523	Nutriments	physiology	612
	mythology	293	Nutrition	physiological botany	581
Northmen in America	U. S. history	973.1		zoology	591
Scandinavian history		948		physiology	612
Norway	botany	581.9	Oases	phys. geog.	551
	geology	554.8	Oaths	ethics	179
	history	948.1		legal	347
	religious history	274.8		of allegiance pol. sci.	323
	travel	914.81	Obadiah	Bible	224
Norwegian language		439	Obedience	doctrinal theology	234
literature		839	Obelisks		718
Romanesque arch.		723	Oberammergau	passion play	792
Nosology	medicin	616	Obituary addresses	biografy	920
Nostrums	state control	614		sermons	252
Notaries public	law	347	Object teaching	education	372
Notation, arithmetic		511	Oblates	monastic orders	271
for book sizes		025	Obligations	social ethics	177
system of library classificat.		025	Obliquity of ecliptic to equator		525
theoretic chemistry		541	Oboe	musical instrument	788
Note-books	literary methods	029	Observation errors	probabilities	519
Notes, public and private, pol. econ.		332		mental faculties	152
Notion, concept. mental faculties		153	Observations	astronomy	524
Nouvelle France	history	971		auxiliary, astron.	522
Nova Scotia	"	971	Observatories		522
Novel reading	ethics	175		meteorologic	551

Topics in black-faced type are subdivided in tables.

Observatories, school apparatus	371	Ohio, U. S., history	977.1
Observing powers education	372	travel	917.71
Obstetrics	618	valley description	917.7
Occult sciences	133	Oil, coal economic geology	553
Occultations and transits, astronomy	523	manufacture	665
Occupations, injurious hygiene	613	painting art	751
mortality in public		building	698
health	614	refining, air pollution	614
Ocean coast changes	551	vegetable agriculture	633
currents phys. geog.	551	Oils adulteration	614.3
exploration	910	chemical technology	668
geography maps	912	Oklahoma, U. S. history	976.6
life zoology	591.9	travel	917.66
mails	383	Old Bactrian language	491
telegraf	654	catholic church	284
tides	525	Egyptian language	493
transportation sociology	387	English "	427
useful arts	656	French "	447
travel	910	Norse "	439
Oceanica antiquities	913.9	literature	839
geography	919	Prussian language	491
geology	559	red sandstone geology	551
history	990	Saxon language	439
religious history	279	literature	839
scientific travels and		Testament	221
surveys	508.9	biography	221
statistics	319	Oleomargarine, adulterations	614.3
travel	919	chemical technology	664
Oceans physical geography	551	Olfaction physiology	612
Octateuch Bible	222	psychology	152
Odd Fellows secret societies	366	Oligarchy	321
Odic force	134	Olive oil chemical technology	665
Odontology animal	591	Olives agriculture	634
human anat.	611	Olympiads chronology	529
Ecumenical councils, eccles. pol.	262	Olympic games, Grecian antiquities	913.38
relig. hist.	270	Omens delusions	133
Offensiv animals econ. zoology	591	Omnigraf engraving	760
materials, air pollu.	614	Omnipotence doctr. theology	231
Offertory alms	264	Omnipresence, " "	231
organ music	786	Omniscience " "	231
sacred music	783	Oneida community socialism	335
Office buildings, arch.	725	Ontogeny embryology	591
equipment and methods	651	Ontology philosophy	111
tenure of civil service	351	Oolite geology	551
training law education	340	lithology	552
Officers, army and navy lives	923	Oology ornithology	598
duties of public ethics	172	Oosporeae algae and fungi	589
Official functions civ. serv. officers	351	Ooze lithology	552
register, U. S., civil service	351	Opal economic geology	553
residences architecture	725	Opening lib. and museums, Sunday	263
Oficleide music	788	libraries on Sunday	024
Ofidia reptils	598.1	Opera, amusement	792
Ophthalmia eye diseases	617	dramatic music	782
Ophthalmic surgery	617	ethics	175
Ophthalmoscope	617	houses architecture	725

Topics in black-faced type are subdivided in tables.

Opera recitative vocal music	784	Ordination	sermons	252
Operations, calculus of	517	Ordinance	engineering	623
Operativ surgery	617	Ore deposits		553
Operetta music	782	dressing	mining eng.	622
Ophicleide	788	Oregon, U. S.	history	979.5
Ophidia reptils	598.1	travel		917-95
Ophthalmia eye diseases	617	question	U. S. hist.	973.5
Ophthalmic surgery	617	Ores	econom. geol.	553
Ophthalmoscope	617	metallurgy		669
Opium habit ethics	178	mineralogy		549
hygiene	613	mining		622
materia medica	615	Orfan asylums		362
traffic ethics	178	Organ music		786
Opossums mammals	599	sacred music		783
Oppositions solar system	523	Organic and inorganic matter, differ-		
Optics	535	ences		577
Optimism philosophy	149	chemical industries		660
Optional studies curriculum	375	chemistry		547
Oracles mind and body	133	remains paleontology		560
Oral examinations education	371	Organization	central government,	
Orange associations political soc.	363	foreign states		354
Oranges agriculture	634	city government		352
Orations English literature	825	civil service		351
Oratorios sacred music	783	cooperation		334
Orators' lives, English	928	courts law		347
Oratory	808	laboring classes		331
American literature	815	schools education		371
English	825	Organografy	botany	581
French	845	zoology		591
German	835	Oriental architecture		722
Greek	885	art		709
Italian	855	churches		281
Latin	875	customs		915
sacred homiletics	251	history		950
Spanish literature	865	languages		490
Orbits, descriptiv astronomy	523	literature		890
earth	525	music theory		781
theoretic	521	mythology		291
Orchards agriculture	634	philosophy		181
Orchestral music	785	question Turkey		949.6
sacred music	783	religions		290
Orchestrion music	789	societies		490
Orchids botany	584	Orientalia literature		890
fertilization of, botany	581	Orientation ecclesiology		246
Ordeal, trial by law	340	Origen early Christian philosophy		189
Orders, holy ministry	262	Origin of English language		422
sacraments	265	evil natural theology		216
monastic	271	individ. soul metaphys.		129
of architecture arch. design	729	knowledge		121
knighthood heraldry	929.7	language		401
Ordinal church ritual	264	life		576
Ordinances	264	man, natural hist. of man		573
religious	265	religious belief		201
Ordination eccles. polity	262	sexes evolution		575
sacraments	265	species		575

Topics in black-faced type are subdivided in tables.

Origin of speech	philology	401	Overstudy	school hygiene	371
Original home of man	ethnology	572	Overture	orchestral music	785
sin	doct. theol.	233	Overwork	hygiene	613
Orinoco river	travel	918.7	mental	mental hyg.	131
Orkneys, Scotland	travel	914.1	Owners, absentee and alien		333
Ornament, arch. dec.		729	liability of	building	692
Ornamental botany		716	Ownership, land		333
design		745	Oxford, England	travel	914.2
gardening, landscape		710	movement		283
Ornaments	costume	391	university		378
prehistoric		571	Oxygen, chemistry		546
toilet		646	Oysters	fisheries	639
Ornithology		598	food		641
Orology	physical geograpy	551	preservd pub. health		614.3
Orphan asylums		362	zoology		594
Orthodox church, holy or Greek		281	Ozocerite	economic geology	553
Orthodoxy	heresies	273	Ozone	chemistry	546
Orthoepey	comparativ philol.	411	hygiene		613
English language		421	Pachyderms	zoology	599
Orthograpy	English "	421	Pacific islands, Polynesia, hist.		996
French "		441	travel		919.6
German "		431	ocean	physical geograpy	551
Greek "		481	slope, U. S.	geology	557.9
Italian "		451	history		979
Latin "		471	states, U. S.	history	979
Spanish "		461	religious hist		277.9
Orthopedics	surgery	617	travel		917.9
Orthoptera	articulates	595	Paddock lectures	apologetics	239
Oryctology	paleontology	560	Pædiatrics	medicin	618
Osmose of liquids		532	Pagan architecture		722
Ossetic language		491	Paganism		290
Osteology, animal		591	Pageants	customs	394
human anatomy		611	Paging machines	printing	655
Ostracism	Greek antiquities	913.38	Pain sense	physiology	612
Ostracoda	articulates	595	Painless extinction of animal life		614
Ostrich	zoology	598	Paint, prehistoric		571
farms	agriculture	636	Painted decoration	arch. dec.	729
Otology	anatomy of ear	611	Painters' lives		927
Ottoman empire	history	949.6	Painting	fine art	750
Out-buildings	architecture	728	house, sign, etc.		698
Outcast races		397	Paintings, collections of, galleries		708
Outcrop	geology	551	engravings from		750
Outdoor relief	charity	361	Paints	chem. technology	667
pauperism		339	Palaces	architecture	728
sports		796	of rulers	arch.	725
Outlawry	criminal law	343	Paleograpy	English language	421
Outlines, compends, see subject			inscriptions		417
Outlining	drawing	741	Paleolithic age	prehistoric arch.	571
Outlooks	landscape gardening	717	Paleontology		560
Outposts	military science	355	Palestine	ancient history	933
Ovariotomy	surgery	617	travel		915.6
Over-hours	hygiene	613	Palestrina	sacred music	783
mantels	fixt furniture	729	Pali language		491
Overshot wheels	mechanical eng.	621	Palimpsests	rare mss	091
Overstrain, physical	hygiene	613.7	Palingenesis	metaphysics	129

Topics in black faced type are subdivided in tables.

- | | | | | | |
|--|-------------------------------|-------|-----------------------------------|------------------------|-------|
| Palladium | inorganic chemistry | 546 | Paris, congress of, 1856 | intern. law | 341 |
| Pallium | sacred ornaments | 247 | expositions | | 606 |
| Palmistry | magic | 133 | Parish care of sick, fallen, etc. | | 258 |
| Palms | botany | 584 | ecclesiastical polity | | 262 |
| Pamphlet cases | | 025 | law | | 352 |
| Pamphlets | misc. collections | 040 | libraries | | 027 |
| | preservation of | 025 | missions theology | | 269 |
| | on special topics see subject | | work, societies for | | 256 |
| Panama | history | 986 | Parks, public | landscape gardening | 711 |
| Pancreatic fluid | physiology | 612 | local government | | 352 |
| Pandects | Roman law | 349 | Parliament | constitutional law | 342 |
| Panics, commercial | political econ. | 332 | England | | 328 |
| Panjabi language | | 491 | houses of arch. | | 725 |
| Panopticon | prison system | 365 | Parliamentary | blue books | 328 |
| Panoramas | amusements | 791 | control admin. | | 351 |
| | painting | 750 | debates | | 328 |
| Pantheism | natural theology | 212 | law | | 328 |
| | philosophy | 147 | reform England | | 328 |
| Pantheon | architecture | 722 | Parlor magic | | 793 |
| Pantomimes | music | 782 | pastimes | | 793 |
| Papacy | eccles. polity | 262 | Parochial libraries | | 027 |
| Papal infallibility " " | | 262 | schools and libraries | | 257 |
| Paper covers | library books | 025 | education | | 377 |
| hanging trade | | 698 | Parodies | English literature | 827 |
| manufacture | | 676 | Parquetry | floors and flooring | 721 |
| money | | 332 | Parricide | criminal law | 343 |
| roofing building | | 695 | Parrots | zoology | 598 |
| Papers on special topics, see subjects | | | Parsee dualism | Christian heresies | 273 |
| Papua | history | 995 | Parseeism | Parsees | 295 |
| Papyrus | manuscripts | 091 | Parsing | English grammar | 425 |
| Parables | English literature | 828 | Parsis | | 295 |
| New Testament | | 226 | Part songs | vocal music | 784 |
| Paradise, garden of Eden, Genesis | | 222 | Parthenon | architecture | 722 |
| primitive home of race | | 572 | Parties, political | | 329 |
| theology | | 236 | social | | 793 |
| Paraffin | chem. technology | 665 | Partizan warfare | military science | 355 |
| Paraffining | building material | 691 | Partnership | law | 347 |
| Paraguay | geology | 558.9 | Parturition | obstetrics | 618 |
| history | | 989 | Party conventions, polit. science | | 329 |
| religious history | | 278.9 | feeling in religion, use of | | 280 |
| travel | | 918.9 | Parzival | legends | 398 |
| Parallax, descriptive astronomy | | 523 | Passion music | | 783 |
| practical " " | | 522 | plays | English literature | 822 |
| Parallelism | Scripture | 220.8 | general history | | 809 |
| Parasites, pathology | animals | 591 | Oberammergau theat. | | 792 |
| plants | | 581 | religion | | 244 |
| Parasitic diseases | pathology | 616 | Passionists | monastic orders | 271 |
| public health | | 614 | Passions | philosophy | 157 |
| plants | | 581 | Pastel drawing | | 741 |
| Parcel post | post-office | 383 | Pasteurism | protective inoculation | 614 |
| Parchment | paper-making | 676 | Pastoral letters | | 252 |
| Parent and child | law | 347 | theology | | 250 |
| Parents | ethics | 173 | visitations | | 253 |
| Parian chronicle | Arundel marbles | 481 | Pastors | ecclesiastical polity | 262 |
| chronicle | Greek history | 938 | Patagonia | geology | 558.2 |

Topics in black-faced type are subdivided in tables.

Patagonia	history	982	Peloponnesus	modern	949.5	
	religious history	278.2	Penal colonies, criminal law		343	
	travel	918.2	law		343	
Patent indexes	literary methods	029	Penance	theology	265	
law	law	347	Pencils	writing materials	652	
	patents	608	Pendulum	geodesy	526	
medicins	adulterations	614.3		physics	531	
	state control	614	Peninsular war	Spanish history	946	
Patents	useful arts	608	Penitentiaries		365	
Pathologic anatomy, study of dis.		616		architecture	725	
Pathology	botany	581	Penmanship		652	
	medicin	616	Pennsylvania, U. S.	history	974.8	
	mental	131		travel	917.48	
	of labor	618	Penology	criminal law	343	
	zoology	591	Pens	writing	652	
Patience	ethics	179	Pensions, government		351	
Patriarchal institutions	pol. science	321		teachers'	371	
Patriarchs of Bible	lives	220.9	Pentateuch	Bible	222	
Patricide	law	343	People's palace	self-education	374	
Patriotism	ethics	172		party, U. S. politics	329	
Patriots' lives		923	Perception		152	
Patristic philosophers' lives		921	Percussion caps	explosivs	662	
	philosofy	189		instruments	music	789
	theology	230	Perfection	ethics	171	
Patronage	ethics	177	Perfectionists	sects	289	
Pauper asylums		362	Perfumery	chemical technology	668	
labor		331		toilet	646	
Pauperism		339	Peridotite	lithology	552	
	and illiteracy, pub. schools	379	Periodical clubs	self-education	374	
Pavements	road engineering	625	Periodicals, general		050	
	sanitation	628		on special topics see subject		
Pawnbroking	loan institutions	332	Peripatetic philosophers		185	
Peabody fund	education	373	Perjury	law	343	
Peace and war	ethics	172	Perkinism	cures	615	
jubilee	Boston	780	Perpetual motion		531	
society	international ethics	172	Persecutions	theology	272	
Peaches	agriculture	634	Perseverance of the saints		234	
Pearls	precious stones	553	Persia	ancient history	935	
Pears	agriculture	634		geology	555.3	
Peasantry	political economy	331		modern history	955	
Peat	economic geology	553		religious history	275.5	
	fuel chem. tech.	662		travel	915.5	
	domestic econ.	644	Persian architecture		723	
Pedagogics		371		ancient	722	
Pedestrianism		796		language	491	
	ethics	175		philosofers	181	
Pediatrics	medicin	618	Person of Christ	doctrinal theol.	232	
Pedigrees	genealogy	929	Personal appearance	costumes	391	
Pedobaptism		265		ethics	177	
Peerage	heraldry	929.7		equation	astron.	522
Pehlevi language		491		hygiene	medicin	613
Pelagianism	heresies	273		liberty	Eng. law	347
Pelasgian architecture		722		names	etymology	929
Pelew islands	history	996		narrativs	autobiografy	920
Peloponnesus	ancient history	938		property	English law	347

Topics in black-faced type are subdivided in tables.

Personal religion	248	Philanthropy ethics	177
rights	347	Philately postage stamps	383
taxation, political economy	336	Philemon epistles	227
Personality dogmatics	233	Philharmonics, societies	780
metaphysics	126	Philippians epistles	227
Perspectiv descrip. geometry	515	Philip's, King, war, New Eng. hist.	974
drawing	742	Philologists' lives	924
effect arch. design	729	Philology	400
Perspiration therapeutics	615	bibliography of	016.4
Persuasion logic	168	biography of	924
Perturbations earth	525	classical	470-489
of heavenly bodies	521	Philoprogenitiveness phrenology	139
Peru antiquities	913.8	zoology	591
botany	581.9	Philosopher's stone alchemy	540
geology	558.5	Philosophers' lives	921
history	985	Philosophic apparatus	530
religious history	278.5	classification of knowl.	112
travel	918.5	instrument making	681
Peruvian ancient architecture	722	magazines	105
Peshito language	492	systems	140
Pessimism philosophy	149	Philosophy	100
Pestalozzian system of education	371	bibliography of	016.1
Pestilences public health	614	biography of	921
Pests agriculture	632	natural	530
Petards military engineering	623	of special topics see subject	
Peter, St epistles	227	Phoenicia ancient history	939
Petition, right of Eng. const. hist.	342	Phoenician architecture	722
Petitions administration	351	language	492
Petralogy lithology	552	philosophers	181
Petrifaction, paleontology	560	Phonetic shorthand	653
Petrography	552	spelling English language	421
Petroleum chemical technology	665	Phonics elementary education	372
economic geology	553	Phonograf acoustics	534
Petrology geology	552	Phonography	653
Peutingerian tables anc. geog.	913	Phonology	414
Pew rents clerical support	254	Phosphates as fertilizers agricul.	631
Phallicism	291	econ. geology	553
Phanerogamia botany	582	Phosphorescence	535
Pharmacists' registration state con-		Phosphorescent animals	591
trol of	614	Phosphorus compounds air pollut.	614
Pharmacopœial drugs adulterations	614.3	inorganic chemistry	546
Pharmacopœias materia medica	615	materia medica	615
Pharmacy econ. botany	581	Photo-electrotyping	777
materia med.	615	Photo-engraving	777
Phases of moon	523	Photographic chemistry	771
Phenicia ancient history	939	Photographs, collections of	779
Phenician architecture	722	of animals in motion	
language	492	art anatomy	743
philosophers	181	zoology	591
Phenomena nutritiv, physiology	612	heavenly bodies	523
vital	577	Photography	770
Phi Beta Kappa	371	astronomy	522
Philadelphia, Penn. history	974.8	optics	535
travel	917.48	Photolithography	775
Philanthropists' lives	923	Photometric observations stars	523

Topics in black-faced type are subdivided in tables.

Photometrics optics	535	Pigments inspec. of, adulterations	614.3
Photometry astronomy	522	Pigmies, human	573
Photozincography	776	Pigs domestic animals	636
Phrase books English language	428	Pile driving	624
Phrenologists' lives	920	Piles diseases	616
Phrenology	139	foundations	721
Phthisis lung diseases	616	Pilgrimages religious	248
public health	614	Pilot laws	347
Phyllopoda zoology	595	Pilots protection of life	614.8
Phylloxera agriculture	632	seamanship	656
Physical astronomy	523	Pineapple agriculture	634
capacity of women educ.	376	botany	584
conditions mental charac.	136	Pines "	585
education hygiene	613.7	Pinnipeds mammals	599
school "	371	Pioneers' lives	923
geografy	551	Pipes, elephant American antiquities	913.7
geology	551	hydraulics	532
sciences	500	prehistoric archeology	571
units physics	530	sewer	628
Physicians, ethics	174	steam heating	697
lives of	926	waterworks	628
registration	614	Piracy history	910
Physics	530	law	343
molecular	539	Pirates' lives	910
Physiognomy	138	Pisces zoology	597
Physiografy	551	Pisciculture business	639
Physiological acoustics	534	Pistols manufacture	683
botany	581	Pit dwellings prehist. archeology	571
chemistry man	612	Pitcairn Island history	997
animals	591	travel	919.7
optics	535	Placers economic geology	553
zoology	591	Places, names of etymology	929
Physiology	612	Plagiarism literary methods	029
animal	591	Plague diseases	616
mental	131	Plagues, history of public health	614
vegetable	581	Plains, physical geografy	551
Phytografy descriptiv botany	580	Plan architect. design	729
Piano and organ	786	Plane geometry	513
Piccolo musical instrument	788	perspectiv	515
Pictorial art fine arts	700	trigonometry	514
Picts ancient history	936	Planetarium descript. astronomy	523
Scottish "	941	Planetary system, constitution of	523
Picture galleries	708	Planets descript. astron.	523
Picturesque beauty esthetics	701	theoretic "	521
views and tours	910	Planing machines mechanical eng.	621
Pierce, F., presidency of	973.6	Planisfere astronomy	522
Piers arch. construction	721	Plans for building	692
design	729	libraries library buildings	022
bridges	624	of cities maps	912
river and harbor eng.	627	Plantagenets English history	942.03
Pietists heresies	273	Plantation songs	784
Piety, practical	240	Planting agriculture	631
Pigeon holes office equipment	651	Plants	580
Pigeons zoology	598	and animals differences	577
Pigments chemical tech.	667	classification of	580

Topics in black-faced type are subdivided in tables.

Plants, gardening	716	Poetry, French literature	841
geologic agents	551	German "	831
landscape gardening	710	Greek "	881
nature-printing from	655	humorous Eng. lit.	827
paleontology	561	Italian literature	851
Plaster		Latin "	871
building material	691	macaronic Eng. lit.	827
casts sculpture	730	philosophy of	808
of Paris agriculture	631	sacred hymnology	245
art	731	satirical Eng. lit.	827
Plastering	masonry	Spanish literature	861
Plate	carving	Poets' lives	928
	domestic economy	Pointed architecture	723
	glass insurance	Poisonous secretion animals	591
	manufacture	Poisons	
	manufacture	chemical analysis	543
Plated ware	"	effects of diseases	616
Plating books, library economy	025	medical jurisprudence	340
Platinum	inorganic chemistry	sale of state control	614
Plato	ancient philosophy	therapeutics	615
	Greek literature	vegetable economic botany	581
	idealism	Poker	
Platonic philosophy	184	amusements	795
Platonists, new	186	ethics	175
Platt deutsch language	439	Polabian language	491
literature	839	Poland	
Players' lives	927	history	943.8
Playing cards	795	language	491
Playright	655	literature	891
Plays		partition of history	947
English drama	822	Russian history	947
mystery history	809	travel	914.38
religion	244	Polar regions, antarctic	
theater	792	geology	559.9
parlor amusements	793	history	999
Pleading	347	relig. hist.	279.9
Pleasure	157	travel	919.9
Plectral stringd instruments	787	arctic	
Pleuropneumonia		geology	559.8
cattle disease	619	history	998
diseases	616	relig. hist.	279.8
Plotting	surveying	travel	919.8
Plow	agriculture	Polariscope	optics
Plumbing			535
house drainage	628	Polarization of light	astronomy
laws	696		522
Plurality of worlds	astronomy		chemistry
Plutology	polit. econ.		544
Plutonic rocks	lithology		optics
Pneumatic tubes	communication		535
Pneumatics	533	Polemic sermons	252
Pneumatology	metaphysics	theology	230
Pneumonia	diseases	Police, local gov't	352
Poetical books of Bible	223	measures	administration
selections, Eng. literature	821	medical	state control
Poetry, Amer. civil war	973.7	sanitary	administration
literature	811	Polish	chemical technology
English literature	821	Polish language	667
		literature	491
		Polishing	painting
		Politeness	ethics
			etiquet
		Political associations	395
		conventions	363
			329

Topics in black-faced type are subdivided in tables.

Political economists' lives	923	Poorhouses	asylums	362
economy	330		pauperism	339
ethics	172	Popery	ecclesiastical polity	262
history Amer. civil war	973.7	Popes	church history	282
organizations	363		lives	922
parties	329	Popham colony	Maine history	974.1
science	320	Popish plot, 1679	English history	942.06
sermons	252	Popular ballads		784
status of woman	396		delusions	133
Politicians' lives	923		education public	379
Politics	329		elections suffrage	324
morals of	172		errors	133
Polity, ecclesiastical	262		lectures self-education	374
Polk, J. K., presidency of	973.6		science	500
Polka	piano music		summer schools self-educ.	374
Poll-tax	political economy	Population	statistics	312
Pollen	fertilization	Porcelain		738
Pollution, air, public health	614		chemical technology	666
water, by cemeteries	614		painting	738
supply of towns	628	Pork packing	public health	614
Polo	amusements		trichinae	614
Polonaise	piano music	Porosity	properties of solids	539
Polyandry	customs	Port Royal heresy		273
	ethics		persecutions	272
Polychromatic ornament	747	Portents		133
Polyfonic school music	783	Portland cement	economic geology	553
Polygamy	criminal law		manufacture	666
	customs		vase pottery	738
	ethics	Porto Rico	history	972.9
	hygiene	Portraits	engraved	769
	Mormonism		painting	757
Polyglot Bibles	220.5	Portugal	geology	554.6
Polygraphy	special libraries		history	946.9
see subject for topical collections	080		religious history	274.6
Polymorfism	crystallography		travel	914.69
Polynesia	geology	Portuguese language		469
	history		literature	869
	languages	Position, calculus of	analyt. geom.	516
	religious history		of body astron.	521
	travel	Positivism	philosophy	146
Polypetalae	botany	Post-mortem examinations	pathol.	616
Polyps	zoology	Post-Nicene apostolic church		281
Polytheism	290		offices sociology	383
Polyzoa	zoology	Postage stamps		383
Pomology	agriculture	Postal savings banks		332
Pompeii	description		service	383
Pompey's pillar	Egyptian antiquities		telegraf	384
	monuments	Potash	chemical technology	661
Ponds, artificial	landscape garden.	Potato	agriculture	633
Ponies	students' honor		disease agriculture	632
Pontificate, Roman	eccles. polity		botany	581
Poolselling	ethics	Potters' clays, economic geology		553
Poor laws	local government	Pottery	art	738
	pauperism		manufacture	666
Poor rates	336		painting	738

Topics in black-faced type are subdivided in tables.

Pottery	prehistoric	571	Presbyterians	lives	922
Poultry, diseases of		619	Presbytery	ecclesiastical polity	262
	domestic animals	636	Prescience	divine attribute	231
Poverty	pauperism	339	Prescription-writing	materia medica	615
Powder, baking	adulterations	614.3	Presents, Christmas	customs	394
	chemical technol.	664	Preservation of food		664
	gun manufactures	662	Preservativs	building	691
	manufacture	662		zoolog. collections	579
	toilet	646	Preserving	cookery	641
Power, transmission of		621	President	U. S. administration	353
Practical astronomy		522		inauguration,	
	chemistry	542		ceremonies	394
	mining	622		veto power	353
	religion	240	Presidential elections	U. S.	324
Practice of medicin		616	Presidents' lives		923
Prairies	physical geograpy	551	Press clippings		029
Praise meetings	public worship	264		hydraulic engineering	621
Prakrit language		491		science	532
Prayer-books	church	264		journalism	070
	church ritual	264		liberty of	323
	family	249		morals of	179
	gage natural theology	217		printing	655
	Lord's gospels	226		public order	351
	meetings	264		writing for	literary methods 029
	natural theology	217	Pressure gages	pneumatics	533
	of Manasses, Apocryfa	229		of air meteorology	551
	private personal relig.	248		blood physiology	612
Preachers' lives		922		clothing hygiene	613
Preaching		251		liquids hydraulics	532
Preadamites		573		sense physiology	612
Precedence	heraldry	929.7	Prestidigitation		791
Precession	practical astronomy	522	Pretenders	English history	942.07
	theoretic "	521	Prevention of contagious diseases		614
Precious metals	metallurgy	669		fire, protection of life	614.8
	mineralogy	549	Priapus	mythology	291
	stones economic geology	553	Prices of books	library admin.	025
	mineralogy	549		political economy	338
Predestination	doctrinal theology	234	Pride	ethics	179
Predicting machines	tides	525	Priest	ministry	262
Predictions		133	Priesthood	Christian ministry	262
Preemption	state land	336	Priests, celibacy of		254
Preexistence of the soul		129		ethics	176
Prefixes	English etymology	422		lives, Roman cath.	922
Pregnancy	obstetrics	618	Primacy	ecclesiastical polity	262
	pathology of	618	Primaries	suffrage	324
Prehistoric archeology		571	Primary schools	methods	372
	man, nat. hist. of man	573		state system	379
Prelacy	ecclesiastical polity	262	Prime meridian	cosmic time	529
Preordination, doctrinal theology		234	Primers	elementary education	372
Preparatory schools, private		373	Primeval man, natural hist. of man		573
Preraphaelitism		759		prehis. archeology	571
Presages		133	Primitiv apostolic church		281
Presbyter	ministry	262		Christianity	270
Presbyterian orders in ministry		262		church	281
Presbyterians		285		culture	571

Topics in black-faced type are subdivided in tables.

Primitiv man, customs of	571	Professional ethics	174
Primogeniture, law	347	Professorships of books and reading	028
Primrose league, political associations	363	Profetic books of Bible	224
Prince Edward Is., Canada, history	971	Profit sharing political economy	331
Printed catalogs lib. economy	025	Profits capital and labor	331
Printers' lives	926	Prognostications	133
marks	655	Progress civilization	901
occupation hygiene	613	of population, statistics	312
Printing	655	sociology	301
calico chemical tech.	667	Progressiv develop. of man evol.	575
inks " "	667	Prohibited books book rarities	098
library administration	025	Prohibition party political science	329
telegrafs, communication	654	temperance	178
trade	655	Projectils military engineering	623
Prints, books of	769	physics	531
cloth chemical technology	667	Projections analytic geometry	516
Prison associations	365	descriptiv "	515
contracts polit. economy	331	map geodesy	526
disciplin	365	Promise ethics	174
life Amer. civil war	973.7	Promissory notes law	347
Prisoners of war international law	341	political economy	332
Prisons	365	Promotions of scholars	371
and reformatories arch.	725	teachers	371
hygiene	613	Pronunciation Eng. language	421
Private banks	332	Proof and copy lit. methods	029
grounds landscape garden.	712	legal law	347
international law	341	reading printing	655
judgment ecclesiastical pol.	262	Propagation of contagious diseases	614
libraries	027	Propellers ships	621
ownership of land	333	Proper names persons and places	929
reading self-education	374	Property capital	331
schools	373	church	254
girls	376	city local taxat.	352
theatricals	793	law of title to	347
ethics	175	literary publishing	655
vs public schools	379	state finance	336
worship	248	suffrage	324
Privateers	341	tax	336
Privately printed books rarities	094	theory of, polit. econ.	335
Privileges, special, to library readers	024	Proportion, in art esthetics	701
to readers library admin.	025	plan arch. design	729
Prize fighting, ethics	175	Proprietary libraries	027
Prizes in school education	371	Proscription criminal law	343
international law	341	Prose composition Greek	488
maritime "	347	Latin	478
Pro-slavery slavery	326	Pro-slavery slavery	326
Probabilities, mathematics	519	Prosody comparative philol.	416
Probate law	347	English language	426
Processes, building materials	691	French "	446
Processions customs	394	German "	436
Produce agriculture	633	Greek "	486
Production political economy	338	Italian "	456
Productions of the soil agriculture	633	Latin "	476
Profanity ethics	177	Spanish "	466
Profecy Bible inspiration	220.1	Prospecting mining engineering	622

Topics in black-faced type are subdivided in tables.

Prostitution	administration	351	Public	customs	394
	ethics	176		debt finance	336
	hygiene	613		documents	328
Protection of animals		591		print'g and dist'b'n	655
	human life from acci-			education	379
	dents	614.8		finance	336
	political economy	337		gardens	711
Protectiv inoculation, pub. health		614		health	614
Protectorate	English history	942.06		local gov't	352
Protestant episcopal church		283		lands	336
	episcopalians' lives	922		law	340
	sects, continental	284		libraries	027
Protestantism		284		sanitation	614
	and Romanism	282		schools education	379
Protofytá	botany	589		securities, polit. economy	336
Protoplasm	animal physiology	591		shows ethics	175
	biology	576		customs	394
	physiology	612		speaking, oratory	808
Protozoa	paleontology	563		spirit patriotism	172
	zoology	593		vs private schools	379
Provençal language		449		works administration	352
	literature	849		worship	264
	Romanesque architecture	723	Publishers' author catalogs		015
Proverbs, book of Bible		223		circulars	015
	folk-lore	398		lives	920
Providence, Divine theology		231	Publishing		655
	natural "	214	Pueblos	dwellings	571
Provincialisms	English language	427	Puerperal diseases	obstetrics	618
Pruning	agriculture	634	Pugilism	amusements	796
Prussia	history	943.1		ethics	175
	travel	914.31	Pulpit	clergy	262
Prussian language, old		491		eloquence homiletics	250
Prussic acid toxicology		615		oratory	251
Psalmody	music	783	Pulpits	architec. accessories	729
Psalms	Bible	223		sacred furniture	247
Psalter church ritual		264	Pulse	physiology	612
Pseudo gospels		229	Pump	pneumatics	533
Pseudomorfs	crystallografy	548	Pumping engines	mechan. eng.	621
Pseudoneuroptera	articulates	595		waterworks	628
Pseudonyms	bibliografy	014	Pumps	engineering	621
Psychic phenomena		134	Punctuation	English language	421
	research mind and body	130	Punishment, future theology		237
Psychologic medicin		131		law	343
Psychology		150		school	371
Psychomancy	divination	133	Purgatory	theology	236
Pteridofytá	botany	587	Puritanism	theology	285
Pteropoda	zoology	594	Puritans	English history	942.06
Public administration		350		religious hist.	274.2
	analysts adulterations	614.3		Mass. history	974.4
	annuities	336		persecutions by	272
	baths	613	Purpose	intention ethics	171
	buildings, architecture	725	Pus	medicin	617
	local government	352	Puseyism	theology	283
	charities	361	Pushtu language		491
	credit political economy	336	Puzzles		793

Topics in black-faced type are subdivided in tables.

Pyemia	diseases	616	Rabbits	domestic animals	636
Pygmies	folk-lore	398	Race horse	amusements	798
	human	573		influence on mind	136
Pyramids	Egyptian	913.32		mortality public health	614
Pyrenees mountains	travel	914.6		suffrage	324
Pyrometry	temperature	536	Races of man		572
Pyrotechnics	chemical tech.	662	Racing	amusements	798
Pyrrhonism	Greek philosophy	186		ethics	175
Pythagorean philosophy		182	Radiant energy of sun		523
Pythias, knights of	secret societies	366		matter	539
Quackery	delusions	133		points meteors	523
	medical, state cont. of	614	Radiates	paleontology	563
Quadrant	astron. instrument	522		zoology	593
Quadrature	integral calculus	517	Radiation	heat	536
	of circle geom.	513	Ragged schools		377
Quadrupeds		599	Rags	public health	614
Quadruplex telegraphs	commun.	654	Railroad accidents		656
Quakers	lives	922		corporations	385
	persecutions	272		electric	621.3
	sects	289		engineering	625
Qualifications of readers	lib. econ.	024		horse	625
	teachers, education	371		law	385
	voters suffrage	324		locomotives	621
Qualitative analysis	chemistry	544		officials' lives	923
Quality	metaphysics	111		passenger stations, arch.	725
Quantics	algebra	512		reports, state	385
Quantitative analysis	chemistry	545		transportation business	656
Quantity	English prosody	426		sociology	385
	metaphysics	119		travel protect. of life	614.8
Quarantine	administration	352	Railroading		656
	contagious diseases	614	Rails	railroad engineering	625
	laws, local admin.	352	Railway guides		656
Quarries, prehistoric		571	Rain	meteorology	551
Quarrying	mining engineering	622	Raising funds for libraries		021
Quarrymen's occupation	hygiene	613	Ram, hydraulic engineering		621
Quartermasters	military admin.	355		water hydraulics	532
Quartet	sacred music	783	Ranch, cattle		636
Quartets	vocal music	784	Range	domestic economy	643
Quartz	lithology	552	Rank	heraldry	929.7
	mineralogy	549	Rape	law	343
Quaternary age	geology	551	Rare binding	book rarities	095
Quaternions	mathematics	516		illustrations "	096
Quays	harbor engineering	627		printing "	094
Queen Anne architecture		724	Rarissima	"	090
Queens' lives		923	Rat	noxious animal	591
Questions	see subject			zoology	599
Quicksilver	see Mercury		Rationalism	natural theology	211
Quietism	heresies	273	Rationalistic age	religious history	270
Quietists, persecution of		272	Rationalists, apologetics against		239
"Quincy system," education		371	Raw materials, duties on		337
Quinin	therapeutics	615	Readers' aids		028
Quoits	amusements	796		elementary, Eng. language	428
Quotations	English literature	828		librarian's relations to	025
	general collections	808		qualifications lib. econ.	024
Rabbinic learning	Judaism	296		selections Eng. lang.	428

Topics in black-faced type are subdivided in tables.

Reading and aids	028	Reform bill, 1832	English suffrage	324
art of	808	civil service		351
books, higher, Eng.	828	schools		364
clubs self-education	374	education		371
desks office equipment	651	sociology		301
elementary education	372	spelling English language		421
private self-education	374	Reformation, age of	European hist.	940
proofs printing	655	religious history		270
rooms, free, library econ.	027	Reformatories	architecture	725
library buildings	022	hygiene		613
Ready-reckoners	658	temperance		178
Reagents chem. anal.	543	Reformatory associations		364
Real estate law	347	Reformd church, Dutch		284
taxation polit. econ.	336	in Amer.		285
presence, theology	265	Reformers' lives		923
Realism philosophy	149	Refracting telescopes		522
Reapers agriculture	633	Refraction	heat	536
Reason in animals zoology	591	optics		535
intuitiv faculty	156	practical astronomy		522
natural theology	210	Refrigerators	domestic economy	643
Reasoning faculty	153	Refuge, houses of		364
Rebellion, political science	323	Regeneration, theology		234
Southern U. S. hist.	973.7	Regicides' lives		923
Receipts medicin	615	Regimen hygiene		613
useful arts	602	Regiments, history of		353
workshop, chem. tech.	660	U. S. civil war		973.7
on special subj. see subj.		Registers, family		929
Recipe books cookery	641	of births, etc., public		312
Reciprocity free trade	337	deeds law		347
Recognition hereafter doct. theol.	237	U. S. army officers		353
Reconstruction U. S. history	973.8	Registration	public health	614
Recreation	buildings arch.	statistics		311
hygiene	613.7	Regulation of med. prac., pub. health		614
Recreations	school hygiene	Regulations, army		355
Recreativ arts	790	navy		359
Recruiting	military science	readers library econ.		024
Red Cross societies	361	Regulators	see special subject	
river settlement, Canada, hist.	971	Reincarnation		129
travel	917.1	Relations, domestic, political science		323
Redemption theology	234	foreign " "		327
Redemptorists monastic orders	271	of capital and labor		331
Reed wind instruments	788	church and state, ethics		172
Reference books	library admin.	Relationship		929
use of aids	028	Relativ location	library economy	025
department lib. econ.	025	Relics	miracles	231
exact literary methods	029	Relief decoration, architecture		729
use of libraries	024	Religion		200
Reflecting circle, astron. instruments	522	and education		377
instruments optics	535	science apologetics		239
telescopes astron. instr.	522	nat. theol.		215
Reflection	heat	biblografy of		016.2
light	535	biogrfy of		922
mental faculties	153	Christian		200
Reflections	perspectiv	comparativ		290
Reflex action	zoology	natural		210
	591			

Topics in black-faced type are subdivided in tables.

Religion, practical	240	Republican institutions	321
Religions, non-Christian	290	party, U. S.	329
Religious anecdotes	244	Repudiation finance	336
architecture	726	Reredos sacred furniture	247
art	246	Rescue protection of life	614.8
associations, Bible, etc.	206	Reservoirs	628
Y. M. C. A., etc.	267	Residences architecture	728
biography	922	official, arch.	725
ceremonies sacraments	265	Residual calculus	517
controversy	270	Resins chemical technology	668
on special subjects see subject		fossil, economic geol.	553
education	377	Resistance of materials, engineering	620
of clergy	207	molec. phys.	539
festivals	264	water hydraulics	532
fiction	244	Resonators acoustics	534
history	270	Resorts, health hygiene	613
institutions	260	Respiration animals	591
liberty	261	physiology	612
orders, monastic	271	Respiratory system, anatomy	611
painting art	755	Responsibility, human doct. theol.	233
ecclesiology	247	ethics	171
poetry	245	Rest and sleep, hygiene	613.7
societies	206	Restaurants	642
of special sects	280	architecture	725
on special subjects see subject		Restoration of the Jews	296
symbolism	246	Restriction of contagious diseases	614
Remains, paleontology	560	Resumption U. S. finance	336
Remedies, legal	347	Resurrection Christology	232
pathology	616	doctrinal theology	236
therapeutics	615	Resuscitation of the drowned, protect.	
Renaissance architecture	724	of life	614.8
European history	940	Retreats, religious	269
fine arts	709	Retribution doctrinal theology	237
religious history	270	Revelation, Book of Bible	228
Rent of state property finance	336	divine	231
political economy	333	Revenue state finance	336
Rents, pew clerical support	254	Reviews, see subject reviewd	
Repentance doctrin.	234	Revised statutes American law	345
Reporting journalism	070	version Eng. Bible	220.5
shorthand	653	New Test.	225
Reports, law, American	345	Old "	221
British	346	Revival, Gothic architecture	724
library administration	025	Grecian "	724
see subject		of letters, literary history	809
Repoussé work fine arts	739	Romanesque arch.	724
Representation	324	Revivals music	783
Representativ gov't polit. sci.	321	of religion	269
Reprisal international law	341	Revolution, American history	973.3
Reproduction, botany	581	English, 1688 "	942.06
physiology	612	of the earth astronomy	525
zoology	591	Revolutions political science	323
Reproductiv power, mental faculties	154	Rewards and punishments theology	233
Reptils paleontology	568	school	371
zoology	598.1	Rhaeto-Romansch language	459
Republic political science	321	Rhetoric	808

Topics in black-faced type are subdivided in tables.

Rhetoric, sacred homiletics	251	Rock salt	economic geology	553
Rheumatism diseases	616	Rocks lithology		552
Rhine travel	914.3	Rocky mountains, U. S. travel		917.8
Rhinoceros zoology	599	Rodentia zoology		599
Rhizopoda zoology	593	Roland legends		398
Rhode Island, U. S. history	974.5	Rolls of honor military		355
travel	917-45	schools		371
Rhodes ancient history	939	Romaic language		489
knights of	929.7	literature		889
modern history	949.9	Roman antiquities		913.37
Rhymes English prosody	426	architecture		722
Rhyming dictionaries Eng. lang.	426	art		709
Rhynchota insects	595	catholic church		282
Richard I English history	942.03	catholics' lives, collected		
2 " "	942.03	biography		922
3 " "	942.04	history, ancient		937
Riddles amusements	793	inquisition, persecutions		272
popular life	398	law		349
Riding	798	literature		870
Rifle manufacture	683	mythology		292
military science	355	orders monastic orders		271
shooting amusements	799	sculpture		733
Rifled ordnance, military engineering	623	Romance, English		823
Right of search	341	languages		479
standard of ethics	171	religious		244
Righteousness, personal religion	248	Romanesque architecture		723
Rights and liberties, const. law	342	revival, architecture		724
land political economy	333	Romanism		282
political science	323	Romans epistle Bible		227
Rinderpest veterinary medicine	619	Rome, ancient history		937
Rings, finger costume	391	church of		282
sacred ornaments	247	missions		266
Rio Janeiro history	981	theology, doctrines		230
travel	918.1	modern		945
Riots law	343	travel		914.5
in any locality see name of place		Romish church		282
Ripple-marks geology	551	Rommany gipsies		397
Rites and ceremonies customs	394	Rood screen architecture		729
Ritual public worship	264	sacred furniture		247
Ritualism	264	Roof construction architecture		721
River engineering	627	coverings building		695
transportation sociology	387	Roofs architectural design		729
Rivers physical geography	551	engineering		624
water supply	628	Rope making		677
Rivets machine tools	621	Rose botany		583
Roadbed railroad engineering	625	culture		716
Roads and pavements engineering	625	Roses, wars of, English history		942.04
elevated " "	625	Rosetta stone, Egyptian inscriptions		493
sociology	388.	Greek " "		481
engineering	625	Rosicrucians secret societies		366
military military eng.	623	Rotary blowers, engineering		621
Robbery criminal law	343	pumps " "		621
Robin Hood English ballads	821	Rotation of earth		525
legends	398	heavenly bodies		521
Rock analysis chemistry	543	sun		523

Topics in black-faced type are subdivided in tables.

Rotation physics	531	Russian essays, collected	047
Rote teaching education	371	journalism	077
Rotifera zoology	595	language	491
Roulettes curves, anal. geom.	516	newspapers	077
Roumania, Turkey history	949.8	periodicals, general	057
travel	914.98	societies, general	067
Roumanian language	459	Rust, anti-, processes, build. materials	691
Round dances, amusements	793	Ruth Bible	222
ethics	175	Ruthenian language	491
table Arthurian romances	398	Ryswick, peace of treaties	341
Roundheads English history	942.06	Sabbatarians Christian sect	289
Rowing sport	797	Sabbath	263
Royal houses heraldry	929.7	schools	268
lives collected biography	923	Sabeism philosophy	181
Rubber manufactures	678	Sabellian heresies	273
Rubies economic geology	553	Sacramentals public worship	264
Rubrics Anglican ritual	264	Sacraments	265
Ruins antiquities	913	ritual	264
Rulers' lives collected biography	923	Sacred art	246
palaces architecture	725	biography	922
Rules for readers library econ.	024	drama miracle plays	792
staff " "	023	religion	244
of order, parliamentary	328	furniture	247
school	371	history	270
Rum chemical technology	663	music	783
Rumania history	949.8	poetry	245
travel	914.98	rhetoric	251
Rumansh language	459	Sacrifice birth customs	392
literature	859.9	Christology	232
Ruminants zoology	599	Sacrifices Bible	220.9
Runes	439	sacraments	265
Anglo-Saxon	429	Sacrilege	265
German	437	Saddlery trade	685
Gothic	439	Safes manufactures	672
Runic inscriptions	439	Safety lamps mining engineering	622
Running hygiene	613.7	Sagas, Norse	839
sports	796	Sahara desert physical geography	551
Rural architecture	728	travel	916.6
cemeteries	719	Sail-making trade	689
economy agriculture	630	Sailing directions	656
life " "	630	navigation	527
sports	796	Sailors' lives	926
water supply	628	Saint Albans-raid U. S. history	973.7
Russia botany	581.9	Vermont hist.	974.3
geology	554.7	Bartholomew's day, persecution	272
history	947	Bernard, hospice of, prot. of life	614.8
in Asia history	957	Helena history	997
religious history	274.7	John of Jerusalem, knights of	929.7
statistics	314	Louis, Mo. history	977.8
travel	914.7	travel	917.78
Russian America, Alaska history	979.8	Petersburg, Russia history	947
architecture	723	travel	914.7
baths hygiene	613	Simonism socialism	335
church sects	281	Saints doctrin	235
cyclopedias	037	lives of	922

Topics in black-faced type are subdivided in tables.

Salamanders	batrachia	597	Saracenic architecture	723
Sale catalogs	author	018	Sarcofagi	burial customs 393
	dictionary	019	Sardinia island, modern	945
	of books	017-019	Sassanian architecture	722
	subject	017	Satan	doctrinal theology 235
Salic laws	German law	349	Satellites	theoretic astronomy 521
Salin waters	economic geology	553	Satire	American literature 817
Salmon fishing, amusement		799		English " 827
	business	639		French " 847
Saloons	temperance	178		German " 837
Salt, lithology		552		Greek " 887
	manufacture	664		Italian " 857
	rock economic geology	553		Latin " 877
Salts, chemical technology		661		Spanish " 867
	theoretic chemistry	541	Satirical music, dramatic	782
Salvage	maritime law	347	Satirists' lives, English	928
Salvation	doctrinal theology	234	Saturn	astronomy 523
	army	267	Saurians	598.1
Samaritan language		492	Sauromterygia, reptils	598.1
Samuel	Old Testament	222	Savings banks, political econ.	332
San Francisco	history	979.4	Savoy, declaration doct. theology	238
	travel	917-94	Saw mills	674
San Salvador	history	972.8	Saws	tools 621
Sanctification	doctrinal theology	234	Saxon, Anglo-, language	429
Sanctuary	legal antiquities	340		literature 829
Sanctus	sacred music	783		old language 439
Sand storms		551		literature 839
Sandals	costumes	391		Romanesque architecture 723
Sands	economic geology	553	Saybrook platform creeds	238
Sandstone	" "	553	Scalds	surgery 617
	lithology	552	Scales, measuring instrument	530
	old red	551		music 781
Sandwich Islands	history	996		practical chemistry 542
Sangreal	legends	398		watch and instrument making 681
Sanguification, physiology		612		weights and measures 389
Sanhedrim	Judaism	296	Scalping	war customs 399
Sanitariums	health resorts	613	Scandal	ethics 177
Sanitary affairs	public health	614	Scandinavia	history 948
	appliances	hygiene 613	Scandinavian	cyclopedias 038
		public health 614		essays, collected 048
	commissions	local gov't 352		journalism 078
		U. S. 361		language 439
	engineering	628		literature 839
	laws	public health 614		newspapers 078
	measures	" " 614		periodicals, gen. 058
	police	administration 351		philosophy 198
	reports	public health 614		protestants 284
	science	engineering 628		societies, gen. 068
Sanitation, engineering		628	Scarlet fever	diseases 616
	public	614		public health 614
	veterinary, pub. health	614	Scavenging of towns	628
Sanskrit language		491	Scene painting	painting 750
	literature	891		theater 792
Santo Domingo	history	972.9	Scepticism	ancient philosophy 186
Saracen empire	history	953		heresies 273

Topics in black-faced type are subdivided in tables.

Scepticism	natural theology	211	Scorpions	zoology	595
	philosophic systems	149	Scotch churches, presbyterian		285
Sceptics' lives, biography		922	covenant creeds		238
Schism	eccles. history	270	English dialects		427
	polity	262	language		491
Schists	lithology	552	philosophers' lives		921
Schizomycetes	botany	589	philosophy		192
Scholar's life, self-culture		374	presbyterians' lives		922
Scholastic philosophers' lives		921	Scotland	antiquities	913.4
	philosophy	189		botany	581.9
School architecture		727		geology	554.1
funds	state education	379		history	941
furniture		371		religious history	274.1
hygiene	education	371		travel	914.1
	medicine	613		zoology	591.9
libraries	education	371	Scottish episcopal church		283
	library economy	027	poetry		821
texts	English language	428	Scrap book methods		029
Schools and libraries, library econ.		021	books	general collections	040
architecture		727		for special, see subject	
education		370	Screening	mining engineering	622
library	library econ.	020	Screens	arch. construction	721
music	mus. education	780		fixt furniture	729
of painting		759	Screw cutting		621
parochial	education	377	physics		531
	parish work	257	propellers	engineering	621
public		379	Script	writing	652
reform		364	Scriptural biography	Bible	220.9
	architecture	725	Scripture chronologies		220.9
Sunday		268	commentaries		220.7
see also special subjects			concordances		220.2
Science and religion	apologetics	239	dictionaries		220.3
	natural theol.	215	harmonies of gospels		226
applied		600	histories		220.9
biography of		925	readings	public worship	264
elementary education		372	Scriptures, holy	Bible	220
mental		150	Scrofula	diseases	616
military		355	Scroll-sawing		749
moral		170	Sculptors' lives		927
natural		500	Sculpture		730
naval		359		prehistoric	571
of religion		201		sacred ornamentation	247
political		320	Scurvy	diseases	616
sanitary		628	Scutage	feudalism	321
social	sociology	300	Scythian language		494
study and teaching		507	literature		894
Sciences, classification of		501	Sea anemones	zoology	593
natural		500	cucumbers	"	593
occult		133	fishery	trade	639
Scientific buildings	architecture	727	laws		347
men	lives of	925	mosses	algae	589
surveys, general		508.3	serpent	delusions	133
travel		508.3	shore resorts, hygiene		613
Scientists, apologetics against		239	urchins	zoology	593
Scope and usefulness of libraries		021	weeds	botany	589

Topics in black-faced type are subdivided in tables.

Seal engraving	736	Sense	mental faculties	152
fishing	639	Sensibility	“ “	157
Seals	heraldry 929.8	Sensitiv plant	botany	583
	zoology 599		physiol. botany	581
Seamanship	656	Sepoy war, Indian	history	954
Seamen's lives	926	Septuagint	Bible	221
Search, right of	international law 341	Sepulcher	cemeteries	718
Seasickness	616	Sepulture	customs	393
Seaside cottages	architecture 728		public health	614
resorts	hygiene 613	Serfs, Russian	history	947
Seasons	astronomy 525		slavery	326
	hygiene 613	Sergeants'-at-law	lives	923
Seating capacity	architecture 729	Serials, see	subject	
Seats, country	“ 728	Sericulture		638
Secession	church of Scotland 285	Sermons		252
	law 342		public worship	264
	U. S. history 973.7	Serpent-charming		591
Second advent of Christ	232		worship	291
adventists	sects 289	Serpentine	economic geology	553
sight	133		lithology	552
Secondary schools, private	373	Serpents	zoology	598.1
public	379	Servants	domestic economy	647
Secret ballot	suffrage 324		ethics	173
service	Amer. civil war 973.7		law	347
societies	366	Servia	history	949.7
college	371		travel	914.97
writing	cryptografy 651	Servian language		491
Secretion	animals 591	Service books	church ritual	264
	physiology 612		library	023
Sects, Christian	280	Servitude	slavery	326
Secular education	377	Session laws, American		345
Sedentary life, hygiene	613		English	346
Sedimentary rocks	lithology 552	Seven champions		398
Sedition	law 343	sages		398
See	eccles. polity 262	sleepers		398
Seismology	551	wonders of the world		609
Selection	evolution 575	Seventh day adventists	sects 289	
Self culture	374	baptists	“ 286	
defense, art of	athletics 796	Sabbath		263
education	374	Sewerage	city administration	352
government	polit. science 321		disposal of	628
school discip.	371		engineering	628
Sematology	philology 419	Sewing	domestic economy	646
Seminaries	architecture 727		machine	687
	education 373		shoes	685
	theological religion 207		tailoring	687
for special topics	see subject	Sex customs		392
Seminary method of instruction	371	in education		376
Semitic languages	492	nature		577
literatures	892	influence of	therapeutics	615
Sensation, beginnings of	biology 576	mortality	public health	614
in animals	zoology 591	origin of	evolution	575
plants	botany 581	production of	embryology	591
mental faculties	152	Sexes	mental characteristics	136
Sensationalism	145	Sextant	astron. instrument	522

Topics in black-faced type are subdivided in tables.

Sexual ethics	176	Shooting, sport	799
science	612	Shop girls	331
selection	575	labor of women	331
variation	591	Shorthand	653
Sferical astronomy	522	Shortsightedness	617
geometry	513	eye diseases	617
projections, descr. geom.	515	Shows	791
trigonometry	514	entertainments	791
Sfinx	299	public customs	394
Sfygmograf	616	Shrimps	595
physiology	612	Shrubbery	715
Shades and shadows, descr. geom.	515	Shrubs	582
Shaft sinking, mining	622	Siam	959
Shafting	621	travel	915.9
Shakers	289	Lower history	959
Shale	552	Siamese architecture	722
Sharks	597	language	494
Shay's rebellion	974.4	twins	617
Sheep, diseases of, compar. medicin	619	deformities	617
domestic animals	636	natural hist. of man	573
Shelf dep't	025	Siberia	555.7
Shell banks	571	geology	555.7
fish	639	history	957
business	594	religious history	275.7
zoology	564	travel	915.7
Shells	571	Sibyllin books	133
fossil	623	Sicilian Norman architecture	723
prehist. archeology	594	Sicily	937
projectils	331	ancient history	945
zoology	022	modern	945
Shelter of laboring classes, pol. econ.	492	Sick, food for	613
Shelving	236	hygiene	362
Shemitic languages	347	hospitals for	725
Sheol	352	architecture	265
Sherifs	941	ministry of sacraments	258
law	914.1	parish care of	649
local government	699	room	523
Shetland islands	626	Sidereal month	529
history	386	astronomy	623
travel	613	time	611
Ship building	621.1	Sieges	362
canals	625	military engineering	617
engineering	656	anatomy	152
sociology	387	asylums for the blind	535
life	347	diseases of	612
hygiene	699	mental faculties	535
propulsion	623	optics	612
mechanical eng.	625	physiology	659
railways	656	Sign boards	419
Shipping and freighting, useful arts	387	advertising	698
history of	347	language	551
laws	699	painting	534
Ships, iron	623	Signal service	623
clad	656	meteorology	654
military eng.	910	military engin.	655
transportation	614.8	telegraphic	299
Shipwrecks	974.2	Sikhs	943.7
adventures	917.42	Prussia	943.1
Shipwreckt, rescue of, prot. of life	617	Silhouets	741
Shoals, Isles of	685	Silk culture	638
history	391	dyeing	667
travel		chemical technology	677
Shock		manufacture	638
result of injury		worm	
Shoemaking		agriculture	
manufacturing			
Shoes			
costume			

Topics in black-faced type are subdivided in tables.

Silos	agriculture	633	Slaughter houses	air pollution	614
Silurian age	geology	551		industrial sanit.	628
Silver	inorganic chemistry	546	Slavery		326
	metallurgy	669		abolition of, U. S. history	973.7
	mining	622	Slaves' biography		326
	money	332	Slavic cyclopedias		937
	ores economic geol.	553		essays, collected	947
	plating manufacture	671		languages	491
Silversmiths' work	fine arts	739		periodicals, gen.	957
Silverware	domestic economy	642		philosophy	197
	fine arts	739	Slavonic church language		491
	manufactures	671	Sleep		135
Simony	canon law	348		and rest hygiene	613.7
	eccles. polity	262		of plants botany	581
Sin	doctrin	233		walking	135
Sinai	ancient history	939	Sliding friction	mechanics	531
	modern "	953	Slight of hand		791
Sinaitic inscriptions		492	Sligo, Ireland	history	941.7
Singers' lives		927	Slöjd	education	371
Singing	public worship	264	Sloth	ethics	179
	vocal music	784	Slovakian language		491
Single standard	coinage	332	Slovenian	"	491
Sinking fund	finance	336	Sluices	engineering	621
Sintooism		299	Smallpox	diseases	616
Sirocco	meteorology	551		inoculation, pub. health	614
Sisterhoods	parochial work	255		public health	614
	religious orders	271	Smell, nerves of	anatomy	611
Size notation for books		925		physiology	612
Sizes of books, shelf dep't lib. econ.		925		senses	152
standard literary methods		929	Smelting	metallurgy	669
Skating		796	Smith college, colleges for women		376
Skeleton, human		611	Smithsonian institution		506
	leaves fancy work	746	Smoke	air pollution	614
	of animals anat.	591		flues heating	697
Skeletons, preparations of		579		nuisance, sanitation	628
Skepticism	natural theology	211	Smoking	ethics	178
Sketching	drawing	741		hygiene	613
Skild labor, political economy		331	Smuggling	criminal law	343
Skill, games of, amusements		794	Smut	agriculture	632
	ethics	175		fungi	589
Skirmishing	military science	355	Snakes		598.1
Skull	anatomy	611	Snow	meteorology	551
	craniology	573	Soap-making	air pollution	614
Slander	ethics	177		chemical technology	668
Slang	English language	427	Sociability	animals	591
	French "	447	Social clubs		367
	German "	437		customs and manners	394
	Greek "	487		democracy socialism	335
	Italian "	457		distinctions ethics	177
	Latin "	477		rank	929.7
	Spanish "	467		drink temperance	178
Slater fund	education	373		ethics	177
Slates	building stones	553		evil	176
	lithology	552		science	300
Slating	building	695		worship	264

Topics in black-faced type are subdivided in tables.

Socialism	335	Sorghum	agriculture	633
Societies	360		manufactures	664
debating	374	Soteriology	doctrinal theology	234
for home study	374		hygiene	613
parish work	256	Soudan, Africa, history		966
general	060	Egypt, "		962
special see subject		Soul in animals		591
Society, ethics	177	metaphysics		128
for ethical culture	170	origin of metaphysics		129
houses student life	371	Sound	physics	534
islands history	996	South Africa	geology	556.8
of Christian endeavor	267		history	968
Jesus monastic orders	271		religious history	276.8
the Cincinnati	369		travel	916.8
Socinians		America	antiquities	913.8
heresies	273		description	918
unitarian church	288		geology	558
Sociology	300		history	980
bibliography of	016.3		religious history	278
biography of	923		scientific travel and	
Socratic philosophy	183		surveys	508.8
Soda	chemical technology		statistics	318
Sodalities	parish work		American Indian literature	898
Soil	public health		languages	498
Soils	agriculture		travel	918
	chemical analysis		Atlantic states, U. S. geology	557.5
Solar engines	engineering		history	975
spectrum astronomy	523		religious history	277.5
system descriptiv astron.	523		travel	917.5
time chronology	529	Carolina, U. S.	history	975.7
Soldiers' cemeteries, national	719		travel	917.57
homes institutions	362	Central Africa	geology	556.7
lives biography	923		history	967
military science	355		religious history	276.7
orphan schools	362		travel	916.7
Sol-fa method music	784		states, U. S. geology	557.6
Solids	geometry		history	976
properties of physics	539		relig. hist.	277.6
Solitary confinement punishments	343		travel	917.6
Solitude	177	Dakota, U. S.	history	978.3
Solomon islands	history		travel	917.83
song of Bible	223	Sea islands	history	996
Solubility	theoretic chemistry		travel	919.6
Solution, chemical	542		scheme stocks	332
Solutions	quantitativ analysis	west, U. S.	history	978
Somnambulism	135		travel	917.8
Somnambulists' lives	920	Southern states	U. S. history	975
Song festivals music	784	Sovereigns' lives		923
of Solomon Bible	223	Sovereignty	pol. science	320
the three children, Bible	229	Space	astronomy	523
Songbooks folk-lore	398		metaphysics	114
Songs and ballads, English literature	821		sense physiology	612
music	784	Spain	antiquities	913.4
Sonnets	English literature		Arabs in history	946
Sophist philosophy	183		botany	581.9
Sorcery	133			

Topics in black-faced type are subdivided in tables.

Spain	geology	554.6	Sphagna	botany	588
	history	946	Spices	adulterations	614.3
	religious history	274.6		chemical technology	664
	travel	914.6	Spiders	zoology	595
Spanish America	history	972	Spindles	stone age	571
	travel	917.2	Spine, curvature of	diseases	616
	art	709	Spinning	manufactures	677
	cyclopedias	036	Spires and domes, arch.	construction	721
	essays, collected	046		architectural design	729
	journalism	076	Spirit	doctrinal theology	233
	inquisition, persecutions	272		leveling, geodesy	526
	language	460	Spiritism		133
	literature	860	Spiritual body	doctrinal theology	233
	newspapers	076		heredity " "	233
	periodicals, general	056		mental characteris.	136
	philosophy	196		metaphysics	129
	societies, general	066	Spiritualism	metaphysics	111
Spar	economic geology	553		modern	133
Spark, induction	electricity	537		sects	289
Sparring	amusements	796	Spirituos liquors	chem. tech.	663
Sparta	ancient history	938		temperance	178
Spas	hygiene	613	Spitzenberg	history	998
Speakers	oratory	808		travel	919.8
Speaking tubes	communication	654	Spoils system, civil service		351
Specie payment	banking	332	Sponges	zoology	593
Species, origin of		575	Spontaneity	metaphysics	127
Specific customs	taxation	336	Spontaneous combustion	chemistry	541
	gravity	542		generation	576
		542	Sports, outdoor		796
	of liquids	532		parlor	793
	physics	531	Springs, hot	physical geology	551
Specifications for building		692		mineral economic geol.	553
Specifics	therapeutics	615		waterworks	628
Specimens, arrange. in museums		579	Sprinkling of streets	sanit. of town	628
Spectacles	disorders of vision	617	Squares, least	geodesy	526
	optics	535		probabilities	519
Specters		133		magic, arithmetic	511
Spectroscope, optics		535		tables of	510
Spectroscopy, astronomy		522	Squaring the circle	geometry	513
Spectrum analysis	astronomy	523	Squids	zoology	594
	chemistry	544	Squinting	eye diseases	617
	optics	535	Stables	agriculture	636
Speculation	banks	332		air pollution	614
	ethics	174		architecture	728
Speech, impediments of		612	Stacks	library economy	022
	organs of	534	Staff	library economy	023
	human anatomy	611		military science	355
	philology	400		music	781
	phonology	414	Stage	ethics	175
	physiology	612		theater	792
	visible	414	Stained glass		748
Speeches	English oratory	825	Staining	chemical tech.	667
Spelling books, English language		428	Stairbuilding	building	694
	phonetic, " "	421	Stalactites and stalagmites		551
	reform " "	421	Stammering		616
Sph- see Sf-					

Topics in black-faced type are subdivided in tables.

Stamp act	U. S. history	973.3	Statuary		730
laws	finance	336	Statute law	American	345
Stamps, postage	post-office	383		British	346
Standard sizes	literary methods	029	Steam boilers		621.1
time		529	inspection, prot. of life		614.8
Standing army		355	engine	mech. eng.	621.1
Star catalogs		523	physics		536
chamber	Eng. history	942.05	fitting		696
clusters		523	heating	building	697
drift		523	engineering		621.1
fish		593	navigation	sociology	387
Starch	adulterations	614.3	useful arts		656
manufacture		664	physics		536
Stars	descriptiv astron.	523	pipes		696
Starvation	dietetic diseases	616	pumps		621
hygiene		613	ships	building	699
State and church	church	261	transportation	useful arts	656
political science		322	Stearin	organic chemistry	547
state ethics		172	Steel	building material	691
banks		332	engraving		762
capitols	architecture	725	manufactures		672
control of cities	adminis.	352	metallurgy		669
debts	finance	336	structures	arch.	721
department, U. S. government		353	works	"	725
education		379	Steeple	architecture	729
ethics		172	Steering	seamanship	656
governments		353	Stellar astronomy		523
laboratories	adulterations	614.3	Stencils	practical printing	655
law reports	U. S.	345	Stenography		653
libraries		027	Stephen	English history	942.02
medicine		614	Stereometer	specific gravity	531
ministries of	architecture	725	Stereometry	gaging	511
monopolies		336	Stereopticon	optics	535
ownership of land		333	Stereoscopes	"	535
political science		320	Stereotomy	descr. geometry	515
properties	finance	336	Stereotyping	printing	655
rights	U. S. const. law	342	Stethometry	physiology	612
socialism		335	Stethoscope	diagnosis	616
supervision of schools	educ.	379	Sties, hog	air pollution	614
trials	criminal law	343	Stigmata	devotional	248
universities	colleges	378	Still-life painting		754
state education		379	Stills	chemical technology	668
Statecraft		320	Stimulants	action of, hygiene	613
States-general, French legislature		328	and narcotics	med.	615
Statesmanship	political science	320	ethics of using		178
Statesmen's lives		923	manufacture		663
Static electricity		537	Stipple engraving		765
Statics		531	Stock exchanges	banks	332
Stationary engines		621.1	jobbing		332
Stationery	paper manufacture	676	live	agriculture	636
Statistical methods		311	Stockholm	history	948.7
Statistics		310	travel		914.87
labor		331	Stockings	costume	391
library administration		025	clothing		646
see special subjects			Stocks	political economy	332

Topics in black-faced type are subdivided in tables.

Stoic philosophy	188	Stuttering	616
Stone age	571	Style fashion	390
and iron structures architec.	721	literary rhetoric	808
artificial, chemical technology	666	Subject bibliographies	016
building materials	691	catalogs bibliography	017
carving sculpture	736	library admin.	025
construction masonry	693	Subjectivity knowledge	121
cutting masonry	693	Sublime and beautiful esthetics	701
sculpture	731	Submarine armor	627
stereotomy	515	cables telegrafy	654
remains	571	mines military eng.	623
ware manufactures	666	telegraf sociology	384
Stonehenge English antiquities	913-4	useful arts	654
Stones econ. geology	553	tunnels mining eng.	622
Storage of electricity, engineering	621	warfare naval "	623
science	537	Submerged vessels ship-building	699
rooms library economy	022	Subscription libraries	027
Stores, cooperativ political econ.	334	to creeds, eccles. polity	262
Stories English fiction	823	39 articles, Ang. ch.	283
Storms, electric	538	Subsidies protection	337
meteorology	551	Substance metaphysics	111
Stoves domestic economy	644	Subterranean telegraf	654
heating building	697	Subways hygiene of ground	614
manufactures	672	road engineering	625
Strains bridge engineering	624	sanitation	628
Strategy	355	Success in life ethics	174
Stratification, geology	551	Succession, apostolic eccles. pol.	262
Stratified ore deposits, econom. geol.	553	monarchic, pol. science	321
Stratigrafic geology	551	to Eng. crown, const. law	342
Strawberries agriculture	634	property law	347
Street cleaning	628	Suction pump, physics	533
railways engineering	625	Suez canal engineering	626
Streets "	625	sociology	386
laying out of, hyg. of ground	614	Suffixes English etymology	422
local administration	352	Suffocation protection of life	614.8
trees in sanitary engineer'g	628	Suffrage	324
Strength of materials engineering	620	Sugar adulterations	614.3
molec. phys.	539	cane agriculture	633
Stresses bridge engineering	624	manufacture	664
Strikes political economy	331	organic chemistry	547
Stringd instruments	787	refinery	664
Strofe English prosody	426	refining air pollution	614
Structural botany	581	Suicide customs	394
geology	551	ethics	179
Structure, molecular physics	539	Suits in equity law	347
of the universe astron.	523	Sulfates chemical technology	661
Strychnin materia medica	615	Sulfur chemistry	546
Stuarts English history	942.06	compounds air pollu.	614
Stucco, external masonry	693	waters econ. geol.	553
Student life and customs	371	Sulfuric acid, chemical technology	661
Students' lives	923	Summer-houses arbors	717
Study furniture	651	resorts amusements	791
rooms library economy	022	schools self-education	374
self-culture	374	Sumptuary laws ethics	177
of special topic see subject		Sun descriptiv astronomy	523

Topics in black-faced type are subdivided in tables.

Sun motors	engineering	621	Switzerland	botany	581.9
pictures	photographs	770	geology		554.9
worship		290	history		949.4
Sunda	geology	559.2	religious history		274.9
history		992	travel		914.94
religious history		279.2	zoology		591.9
travel		919.2	Sword exercise		796
Sunday		263	Syenite	lithology	552
closing	library economy	024	Syfon	physics	532
school libraries		027	Syllogism	logic	166
schools		268	Symbolic logic		164
Superintendence, building		692	Symbolism	Bible	220.6
school		379	religious art		246
Superior, Lake	travel	917.7	Symfony	orchestral music	785
Supernatural metaphysics		125	Sympathy	emotions	157
theology		231	Symptoms	diagnosis	616
Supernaturalism delusions		133	Synagogues	architecture	726
Superstitions		133	Synchronology	history	902
Supervision	building	692	Synod	ecclesiastical polity	262
school		379	Synonyms	English language	424
Supply and demand	political econ.	338	French	"	444
Supremacy, papal, ecclesiastical polity		262	German	"	434
Supreme court reports, U. S.		345	Greek	"	484
Surface features of the earth		551	Italian	"	454
Surgeons' lives		926	Latin	"	474
Surgery		617	Spanish	"	464
Surnames	genealogy	929	Syntax	comparativ philology	415
Surveying	geodesy	526	English language		425
Surveys, general scientific		508.3	Synthesis	chemistry	545
sanitary	public health	614	logic		160
Survival of the fittest	evolution	575	Syphilis	diseases	616
Susceptibility, emotions		157	public health		614
Suspension bridges		624	Syphon	physics	532
Svealand, Sweden	history	948.7	Syria	ancient history	939
travel		914.87	Syriac language		492
Swallows	zoology	598	Syrian church, sects		281
Swearing	ethics	179	Syrup	adulterations	614.3
Sweating system	laboring classes	331	Systematic botany		580
Sweden	antiquities	913.4	catalogs, bibliography		017
botany		581.9	theology		230
geology		554.8	Systems	manuals see subject	
history		948.5	Tabernacle	Biblical antiquities	220.9
religious history		274.8	sacred furniture		247
travel		914.85	Table and parlor games		793
zoology		591.9	talk	English literature	828
Swedenborgian church		289	tipping	spiritualism	133
Swedish church	sects	284	Tableaux		793
language		439	Tables	astronomy	524
literature		839	furniture		642
Swimming		796	library		022
animal locomotion		591	interest		658
Swindling	confidence practices	174	life	life insurance	368
Swine, diseases of	comp. medicin	619	mathematical		510
domestic animals		636	mercantile		658
Switzerland	antiquities	913.4	tide		525

Topics in black-faced type are subdivided in tables.

Tablets, memorial monuments	718	Teeth	dentistry	617
Tachygraphy shorthand	653	Teetotalism	temperance	178
Tact mental faculties	151	Tehuantepec ship canal	engineer.	626
Tactics, military	355	Telephone	communication	654
Tailoring	687		electricity	537
Takigrafiy	653		sociology	384
Talbotypes	772	Telegraf	communication	654
Talent mental faculties	151		electricity	537
Tales English literature	823		military signals	623
Talipes surgery	617		sociology	384
Talismans	133	Telegrafi	useful arts	654
Talmud Judaism	296	Teleology	metaphysics	124
Tambourine instruments	789	Telescope	astronomy	522
Tamil language, Dravidian	494		optics	535
literature	894	Telescopes	famous	522
Tammany political associations	363	Temper	ethics	179
Tanning	675	Temperament	piano	786
	614	Temperaments	mind and body	137
Taoism	299	Temperance		178
Tapestry	746		hygiene	613
Tapioca chem. technology	664	Temperature	animal heat	612
Tar " "	668		conditions of life	577
	695		hygiene	613
Target-shooting	799		in diseases, diagnosis	616
Targuins Chaldee versions	221		measurement	536
Tarifs	337		of air meteorology	551
Tartary history	950		body physiology	612
travel	915		earth geology	551
Tasmania history	994		sense physiology	612
Taste esthetics	701		therapeutics	615
mental perceptions	152	Tempering	manufactures	671
	647		molecular physics	539
Taverns	347	Templars		366
Tax titles law	352		knights	929.7
Taxation local government	336	Temples	architecture	726
political econ.	336		student society halls	371
Taxes, exemption from	336	Temporal power	papacy	262
tarif	337	Temptation	doctrinal theology	233
Taxidermy	579	Tenants	law	347
Tea adulterations	614.3	Tender, legal	paper money	332
cultivation, agricult.	633	Tenement houses	architecture	728
domestic economy	641	Tenements	hygiene	613
Teachers and teaching	371	Teneriffe	description	914.6
institutes education	370	Tennessee, U. S.	history	976.8
lives	923		travel	917.68
Teaching of special topics see subject		Tension	strength of materials	620
Teas, commercial mixing of	663	Tent life	hygiene	613
Technical dictionaries	603	Tenting	outdoor sports	796
on special topics see subject		Tents as dwellings	prehistoric arch.	571
education	607	Tenure of land	law	347
on special topics see subject			political economy	333
Technological schools	607		office, civil service	351
on special topics see subject			library economy	023
Technology	600		teachers'	371
chemical	660	Teratology	animals	591
Teeth animals	591			

Topics in black-faced type are subdivided in tables.

Teratology	natural hist. of man	573	Theism	natural theology	211
	plants	581	Theodicy	God	231
	surgery	617		providence	214
Terminology	metaphysics	112	Theofanies		231
Terms	schools	371	Theologians' lives		922
Terra cotta	art	738	Theological education	religion	207
	construction	masonry 693		seminaries	207
	manufactures	666	Theology		200
Terra del Fuego	travel	918.2		biography of	922
Terraces	physical geology	551		natural	210
Terrapin	zoology	598.1	Theoretic astronomy		521
Terrestrial magnetism		538		chemistry	541
Tertiary age	geology	551		ethics	171
Test laws, Eng. religious history		274.2	Theories of construction	building	690
Testacea		594		special subject see subj.	
Testament, New		225	Theosophy		212
Old		221	Therapeutics		615
Testamentary law		347	Thermal springs	seismology	551
Testimony, legal evidence		347	Thermochemistry		541
	probabilities	519	Thermodynamics		536
Tests	chemical analysis	543	Thermometers	heat	536
Testudinata	zoology	598.1		mechanic trades	681
Tetanus	diseases	616	Thermometry, meteorology		551
	surgery	617	Thermoscope		536
Teutonic knights		929.7	Thessalonians	Bible	227
	minor languages	439	Thibet, China	history	951
	literatures	839	Thirty-nine articles	creeds	238
	mythology	293	Thirty years' war	European history	940
Texas, U. S.	history	976.4		German "	943
	travel	917.64		Scandinavian hist.	948
	annexation of U. S. history	973.5	Thomas à Kempis		242
Text b'ks for writ'g verse, Eng. prosody		426	Thomsonianism	cures	615
	instruction	371	Thoracostraca		595
Textil fabrics, inspection of		614.3	Thorough bass	music	781
	manufactures	677	Thought faculty		153
	prehistoric archeology	571		transference	134
	hangings	building 698	Thrift, laboring classes	polit. econ.	331
	roofing	" 695	Thronbjhem, Norway	history	948.4
Texts	comparativ philology	418		travel	914.84
	for learning Eng. lang.	428	Thugs		299
	French "	448	Thunder		537
	German "	438		storms	meteorology 551
	Greek "	488	Tide tables		525
	Italian "	458		waters	law 347
	Latin "	478	Tides		astronomy 525
	Spanish "	468			physical geography 551
Thallofyta		589	Tigers		zoology 599
Thanksgiving day	customs	394	Tiles	architectural construction	721
	sermons	252		building material	691
Thatch	roofing	695		manufactures	666
Theaters	amusements	792	Tiling	building	695
	ethics	175	Till	physical geology	551
	hygiene	613	Timber	architecture	724
Theatricals, private		793		building material	691
Theft	law	343		forestry	634

Topics in black-faced type are subdivided in tables.

Timber	manufacture	674	Tools	building	690
	trade	338		mechanic trades	680
Timbuctoo	travel	916.6		mechanical eng.	621
Time	chronology	529		prehist. archeol.	571
	cosmic	529	Toothache	dentistry	617
	distribution of	529	Topical method	instruction	371
	keepers watchmaking	681	Topograpy	hygiene of ground	614
	metaphysics	115		maps	912
	standard	529		military, mil. science	355
	tables, railroad	656		surveying	526
Timothy	Bible	227	Tories	political parties	329
Tin	chemistry	546	Tornadoes	meteorology	551
	manufacture	671	Torpedoes	explosivs	662
	metallurgy	669		naval engineering	623
	mining	622	Torsion	molecular physics	539
	prehistoric	571	Tortoises	zoology	598.1
	ores econ. geol.	553	Torts	law	347
	roofing building	695	Torture	customs of war	399
Tissues	animal histology	591		law	340
	vegetable "	581		persecutions	272
Tithes		254	Total abstinence		178
	taxation	336		depravity doctrinal theology	233
Title catalog	library administration	025	Touch	magnetism	538
	to property, law of	347		mental faculties	152
Titles and duties	library economy	023		physiology	612
	changed book, bibliography	014	Tournaments	customs	394
	of honor	929.7	Town halls	architecture	725
Titus	Bible	227		officers local gov't	352
Toads		597	Towns	government	352
Toadstools	botany	589		sanitation of	628
Tobacco, cerebro-cardiac poisons		615	Toxicology	therapeutics	615
	cultivation	633	Toys	amusements	793
	ethics	178	Tract societies		206
	hygiene	613	Tractarianism	Anglican church	283
	inspection of adulterations	614.3	Traction engines		621.1
	internal revenue	336	Tracts, religious, practical		240
	manufacture	679		on special topics see topic	
	state monopoly	336	Trade, boards of commerce		381
Tobit	Apocryfa	229		depressions	381
Toes, extra	deformities	617		domestic	381
Toilet articles, customs		391		foreign	382
	domestic economy	646		free	337
Tokio	history	952		list of books, publishers'	015
	travel	915.2		marks copyright	655
Toleration, religious	state ethics	172		law	347
Tolls, road and bridge		352		patents	608
Tomb-burial	public health	614		slave	326
Tombs	cemeteries	718		winds meteorology	551
	disposal of dead	393	Trades	mechanic	680
Tongue	diagnosis pathology	616		unions polit. econ.	331
Tonic sol-fa	vocal music	784		useful arts	680
Tonics	aids to digestion	615	Traditions	folk-lore	398
Tonkin	history	959	Traffic commerce		656
Tonnage	gaging	389	Tragedies	English literature	822
	shipping	656	Training, physical hygiene		613.7

Topics in black-faced type are subdivided in tables.

Training, physical	outdoor sports	796	Travels	special see subject	
	school hygiene	371	Traverse tables	surveying	526
	teachers	371	Treadmills	mechanical eng.	621
	special, see subject			punishments	343
Trains	railroad engineering	625	Treason	law	343
Traitors' lives		923	Treasury notes	paper money	332
Tramps	pauperism	339		U. S., administration	353
Tramways	city transit	388	Treaties	international law	341
	engineering	625	Treating	temperance ethics	178
	mining engineering	622	Treatises, Am. and Eng. priv. law		347
Transactions	gen. soc.	060		on special topics, see subject	
	special, see subject		Treatment of captives war customs		399
Transcendentalism		141		disease	616
Transit instruments	astronomy	522		the dead, customs	393
Transits	"	523		pub. health	614
Translating, art of		808	Treaty of Washington		341
Translations	are clast with originals		Trees	botany	582
	principle of, comp. phil.	418		forestry	634
Transliteration	comparativ philol.	411		fruit culture	634
	in cataloging	025		in streets, sanitation	628
Transmigration of souls		129		ornamental	715
Transmission, heredity	evolution	575	Trefining	surgery	617
	hygiene	613	Trent	creed of Pius 4	238
	machinery of eng.	621	Trial civil		347
	of disease, pub. health	614		court-martial	344
	electric power, eng.	621.3		criminal	343
	force physics	531		ecclesiastical	262
	gases	533		jury	340
	heat	536		ordeal	340
	power, mech. eng.	621		state	343
Transmutation of energy	physics	531	Trials, civil	law	347
	metals chemistry	540		criminal "	343
	species, evolution	575		military "	344
Transplanting, agriculture		634	Triangle	musical instruments	789
Transportation, buildings	arch.	725	Triassic age	geology	551
	criminal law	343	Tribes	form of state	321
	military	355	Trichinae	economic zoology	591
	sociology	380		parasitic diseases	616
	useful arts	656	Trichiniasis	public health	614
Transubstantiation		265	Tricks with cards	amusements	793
Transvaal, Africa	history	968	Tricycling		796
Transversals	modern geometry	513	Triest	history	943.6
Transylvania	history	943.9		travel	914.36
Trap	lithology	552	Trigonometry		514
Trapping	business	639	Trilobites	paleontology	565
Trappists	monastic orders	271		zoology	595
Traumatic fever	surgery	617	Trinity	doctrinal theology	231
Travel	hygiene	613	Tripoli, Africa	history	961
Travelers, manuals for		910	"Triumphs"	student customs	371
	protection of, pub. health	614.8	Troas	ancient history	939
Travelers' conversation books, Eng.		428	Trombone	wind instruments	788
	lives	923	Tromso, Norway	history	948.4
Traveling, art of		910		travel	914.84
Travels, general		910	Tropical plants		581.9
	scientific	508.3	Trotting	racing	798

Topics in black-faced type are subdivided in tables.

Troubadours	849	Typografters' lives	926
Trout culture, fishing	639	Typografting	655
Frouvères French literature	841	Typology	220.6
Troy ancient history	939	Tyrian architecture	722
Truces international law	341	Tyrol history	943.6
Truck system labor and wages	331	travel	914.36
Trumpet wind instruments	788	Tyrone, Ireland history	941.6
Trunkmaking	685	Tyrotaxon animal poisons	615
Trusses engineering	624	Ulcers surgery	617
surgery	617	Ulster, Ireland history	941.6
Trust companies banks	332	travel	914.16
Trusts and trustees law	347	Ultramontanism catholic church	282
Truth ethics	177	eccles. polity	262
Tubes, pneumatic communication	654	Unconsciousness metaphysics	127
speaking	654	Unction, extreme theology	265
Tubular bridges	624	Underground roads engineering	625
Tudor architecture	724	mining eng.	622
Tudors English history	942.05	Understanding mental faculty	153
Tungusic language	494	Undulation dynamics	531
Tunicata	594	sound	534
Tunis history	961	Undulatory theory of light	535
travel	916.1	Uniformity, act of, Eng. religious hist.	274.2
Tunneling mining engineering	622	Uniforms, military	355
Tunnels aqueducts	628	Unionidae zoology	594
Turanian languages	494	Unions, trade polit. economy	331
literatures	894	Unique books, rarities	094
Turkestan geology	555.8	Unitarian church	288
history	958	Unitarians' lives	922
religious history	275.8	United Americans political soc.	363
travel	915.8	brethren sects	284
Turkey in Asia geology	555.6	Kingdom history	942
history	956	Netherlands	949.2
religious history	275.6	presbyterian church sects	285
travel	915.6	Provinces history	949.2
Europe botany	581.9	service, military and naval	355
history	949.6	States administration	353
travel	914.96	antiquities	913.7
Turkish architecture	723	bank	332
baths customs	391	botany	581.9
hygiene	613	boundaries	973
harems customs	392	Christian com. relig.	267
language	494	U. S. hist.	973.7
literature	894	coast survey	526
Turning lathes	621	constitutional law	342
Turnpikes road engineering	625	finance	336
Turtles zoology	598.1	geology	557.3
Twilight	525	government admin.	353
Tyoid fever pathology	616	history	973
public health	614	laws	345
Tyfus fever pathology	616	literature	810
public health	614	religious history	277.3
Tyler, J: presidency of	973.5	sanitary com., charity	361
Type and type setting printing	655	U. S. hist.	973.7
founding	655	statistics	317
writers communication	652	statutes	345

Topics in black-faced type are subdivided in tables.

United States	travel	917.3	Vagabonds	pauperism	339	
	zoology	591.9	Valleys	physical geograpy	551	
United States of Colombia	geology	558.6	Value, standards of, political economy		332	
	history	986	Values, average	probabilities	519	
	relig. hist.	278.6	Valves	hydraulics	532	
	travel	918.6		mechanical eng.	621	
Unity	metaphysics	111	Vampire	zoology	599	
	of God doctrin	231	Van Buren, M., presidency of		973.5	
	human race	572	Vancouver's island	history	971	
	knowledge	121	Vapor engines	mech. eng.	621	
	language	401	Vaporization	heat	536	
	nature	501	Vapors	meteorology	551	
Univalves	mollusks	594		properties of	533	
Universal gravitation, law of mechan.		531	Variation	evolution	575	
	history	909		in animals, phys. zool.	591	
	language	408		of compass	522	
	suffrage	324	Variations, calculus of		517	
Universalism		289	Variolation	contagious diseases	614	
Universalists' lives		922	Varioloid	diseases	616	
Universals	metaphysics	113	Varnishes	chemical technology	667	
Universe	astronomy	523	Varnishing	painting	698	
Universities		378	Varnishmaking	air pollution	614	
	architecture	727	Vases	pottery	738	
University education		378	Vassalage		321	
	extension	378	Vassar college, colleges for women		376	
	of the State of New York	379	Vatican council, 1870	infallibility	262	
	people's, library as the	021	Vaticination	prediction	133	
Universology	cosmology	113	Vaudois	Christian sects	284	
Unregenerate	doctrinal theology	233		persecution	272	
Upholstering	furniture	684	Vaults	air pollution	614	
Ural-Altaic language		494		arch. construction	721	
	literature	894		design	729	
Uranograpy	astronomy	523	Vedas	Sanskrit literature	891	
Uranus	planets	523	Vegetable anatomy		581	
Urchins, sea	radiates	593		chemistry	547	
Uruguay	geology	558.9		diet	hygiene	613
	history	989		fats	chem. tech.	665
	religious history	278.9		food	hygiene	613
	travel	918.9		irritants	poisons	615
Usages, social, etiquet		395		oils	chem. tech.	665
Use of words	Eng. philology	428		parasites, diseases		616
Useful arts		600		physiology		581
	bibliograpy of	016.6		substances, analysis of		543
	biograpy of	926		trades	air pollution	614
Usefulness of animals, econ. zool.		591		world botany		580
	plants " bot.	581	Vegetables, agriculture			635
Usury	banking	332		inspection of, pub. health		614.3
	law	347		preservation of, chem. tech.		664
Utah, U. S.	history	979.2	Vegetarianism	hygiene		613
	travel	917.92	Vegetation	botany		580
Utilitarianism	ethics	171	Vehmgericht	criminal law		343
Utility of philosophy		101	Veins, geology			551
	special subjects, see subject			mineral	economic geology	553
Utopias	political science	320	Vellum, books printed on	rarities		096
Vaccination	cont. diseases	614	Velocipede			796

Topics in black-faced type are subdivided in tables.

Venders	law	347	Vision	mental faculty	152
Veneering	architectural decor.	729		optics	535
Venesection	therapeutics	615	Visions and dreams		135
Venezuela	geology	558.7	Visitation and search	internat. law	341
	history	987		pastoral	253
	religious history	278.7	Visitations	English heraldry	929.7
	travel	918.7	Vital force	biology	577
Ventilating	science	536		functions	animal physiol.
Ventilation	building	697			human
	library economy	022		phenomena, biology	577
	mining engineering	622		statistics	population
	sanitary	628			public health
Ventriloquism		791	Vitalism	biology	577
Venus	planets	523	Vitality	zoology	591
	transits of astron.	523	Vivisection	animal anatomy	591
Vermes	articulates	595		ethics	179
Vermont, U. S.	history	974.3		laws, public health	614
	travel	917.43	Vocal culture	elocution	808
Verse, text-books for writing		426		music	784
Versification, English prosody		426		hygiene, etc.	784
Vertebrates	paleontology	566		music	784
	zoology	596		organs, acoustics	534
Vespers	music	783			human anatomy
	ritual	264			physiology
Vestments		247	Vocalists' lives, singers		927
Vesuvius	volcanos	551	Voice	elocution	808
Veterinary medicin		619		physiology	612
	sanitation, pub. health	614		singing	784
Viaducts	bridges	624	Volapük	universal language	408
Viaticum	sacrament	265	Volcanic rocks	lithology	552
Vice	crime	343	Volcanos	physical geology	551
	ethics	170	Volskied	vocal music	784
Victoria, Queen	English history	942.08	Voltaic electricity	physics	537
	Australia	994	Volumetric analysis	chemistry	545
Vignettes	engravings	760		geometry	513
Vikings	history	948	Voluntary	music	786
Village communities		321	Volunteers	army	355
Villas	architecture	728	Vomiting	diseases	616
Villeins	feudalism	321	Voodooism		133
Vine culture	agriculture	634	Vortex rings	molecular physics	539
Vinegar		664	Voters, qualifications		324
Vines	botany	581	Voting	suffrage	324
Vineyards		634		machines	suffrage
Violins	stringd instruments	787	Vowels	English language	421
Virgin Mary	catholic doctrin	230	Vows	asceticism	248
Virginia, U. S.	history	975.5	Voyages, Arctic		919.8
	travel	917.55		round the world	910
	West, U. S.	975.4		scientific	508.3
	travel	917.54		travels	adventures
Virginity	religious asceticism	248	Vulgarisms	English language	428
Virtues		170	Vulgate	Bible	220.4
Visible speech, phonology		414	Wager of battle	legal antiquities	340
Visigoths	German history	943	Wagers	ethics	175
Vision, disorders of, asylums for blind		362	Wages, labor and, polit. economy		331
	diseases of eye	617	Wagnerian music		782

Topics in black-faced type are subdivided in tables.

Wagons	manufacture	684	Washington, U. S.	history	979.7
Wake	funeral customs	393		travel	917.97
Wakefulness	insomnia	613		treaty of	341
Waldenses	persecutions	272	Wasps	insects	595
	sects	284	Wastes, disposal of	sanitation	628
Wales	geology	554.2	Watches	horology	529
	history	942.9	Watchmaking		681
	language	491	Water, artificial ponds, etc.		714
	religious history	274.2		as a beverage	hygiene 613
	travel	914.29		chemical analysis	543
Walking	animal locomotion	591		closets	house drainage 628
	matches amusements	796		colors	751
	pedestrianism	613.7		cure therapeutics	615
Walks	landscape gardening	713		engines	mechanical eng. 621
Wall papers	decoration	745		filters	hygiene 613
	manufacture	676		force of	engineering 627
	paper hanging	698		gas	heating 697
	street	banking 332		glass	chem. tech. 666
Wallachia	history	949.8		hydraulics	532
	travel	914.98		microscopic analysis, hygiene	613
Wallachian	language	459		mineral, artificial	663
	literature	859		physical geograpy	551
Walls	arch. construction	721		pollution	628
	design	729		power	mechanical eng. 621
Waltz	music	786		products	338
Waltzing	amusements	793		supply, canal engineering	626
	ethics	175		sanitary	" 628
Wandering Jew	legends	398	towers	fire extinction	614.8
War captures	law	341	travel	protection of life	614.8
	cause of	" 341	wheels	hydraulics	532
	civil	U. S. history 973.7		mech. engineering	621
	customs of	399	works		628
	dances	399		city administration	352
	department, U. S.	353	Watering places	hygiene	613
	ethics	172	Waterloo, battle of	French history	944
	French and Indian, U. S. history	973.2	Waters, mineral	adulterations	614.3
	law of	341		geology	553
	Mexican	U. S. history 973.6		hygiene	613
	of 1812, " "	973.5		therapeutics	615
	Roses	English " 942.04	Wave theory	optics	535
	Revolutionary	U. S. history 973.3	Waves, theory of	hydraulics	532
	science and art of	355	Wax flowers		746
	woman in	woman's position 396	Wealth and rank, social ethics		177
Warehouses	architecture	725		political econ.	331
Warm baths	hygiene	613	Weapons	customs	399
Warming	building	697		military science	355
	sanitary engineering	628		prehist. arch.	571
Warnings	omens	133	Weather	meteorology	551
Warpt surfaces	descr. geometry	515	Weaving		677
Warrants	law	343	Wedding customs		392
Warts	skin diseases	616	Wedgewood ware	pottery	738
Washing	laundry	648	Weeds	economic botany	581
Washington, G.	presidency of	973.4		pests	632
	D. C.	history 975.3	Week, names of days of		529
		travel 917.53	Weems	prehistoric arch.	571

Topics in black-faced type are subdivided in tables.

Weighing and measuring	chem.	542	Wigs	customs	391
Weights and measures		389	Will	metaphysics	159
Well water	impurities	613		of God	ethics 171
Wellesley college, colleges for women		376		theology	234
Wells	physical geografy	551	William 1, Conqueror, Eng.	history	942.02
	water supply	628	2	" "	942.02
Welsh history		942.9	3	" "	942.06
language		491	4	" "	942.07
literature		891	Wills	genealogy	929
travel		914.29		law	347
Were-wolves	folk-lore	398	Wilmot proviso	U. S. history	973.6
West Indies	geology	557.2	Wind and current charts		551
	history	972.9	instruments	music	788
	travel	917.29	mills	air engines	621
Point academy		355	Window gardens		716
U. S. travel		917.8	Windows, arch.	construction	721
Virginia, U. S.	history	975.4		design	729
	travel	917.54		stained glass	arch. decor. 729
Western or Rom. catholic church		282	Winds	meteorology	551
states, U. S.	mountain		Wine	adulterations	614.3
	geology	557.8		at table	temperance 178
	history	978		domestic economy	641
	relig. hist.	277.8		manufacture	663
	travel	917.8		temperance	178
Pacific	geology	557.9	Wings	animal locomotion	591
	history	979	Wire	manufacture	671
	relig. hist.	277.9	Wisconsin, U. S.	history	977.5
	travel	917.9		travel	917.75
Westminster assembly's catechism		238	Wisdom	Apocrypha	229
confession	creeds	238		divine, doct.	theology 231
Whale	fisheries	639	Wit	American humor	817
	zoology	599		English	" 827
Wheat	adulterations	614.3		French	" 847
	agriculture	633		German	" 837
	trade, agricul. products	338		Greek	" 887
Wheel and axle, physics		531		Italian	" 857
cycling	amusements	796		Latin	" 877
Wheels, cog	mechanical eng.	621		Spanish	" 867
	railroad engineering	625	Witchcraft		133
	water hydraulics	532	Witches	persecutions	272
	mechanical eng.	621	Witnesses	evidence	347
	wooden, manufactures	674	Wives' duties	family ethics	173
Whigs	Eng. political parties	329	Woman	customs	396
U. S.	" "	329		education	376
Whirlpools	ocean currents	551		suffrage	324
Whirlwinds	meteorology	551		political parties	329
Whiskey	chemical technology	663		woman's position	396
	insurrection, Pa., hist.	974.8	Woman's position and treatment		396
	tax	336	rights	woman's position	396
Whist	games	795	Women, diseases of		618
White hair	dermatology	616	duties of	family ethics	173
lead	manufacture	667		social	" 177
Whooping cough	pathology	616	labor of	political econ.	331
	public health	614	lives of	collections	920.7
Wife's duties	ethics	173	Women's religious societies		267

Topics in black-faced type are subdivided in tables.

Women's rights	396	Yacht-building	699
work in church	259	Yachting	797
Wood		Yarns	677
building material	691	manufactures	677
carving	736	Yearbooks	statistics
construction, general, carpent.	694		310
engraving	761	Year books, see subject	
implements	674	Yeast	614.3
manufactures	674	adulterations	614.3
working	674	botany	589
Woodbury types	773	chemical technology	664
Woods		domestic economy	641
economic botany	581	Yellow fever	616
forestry	634	diseases	616
Wool, agriculture	636	public health	614
dyeing	667	Yellowstone park	917.87
chemical technology	667	York, house of	942.04
manufactures	677	English history	942.04
Woolen clothing	613	Yosemite, Cal.	917.94
Word methods, elemen. education	372	Young, counsels to	173
Words		ethics	173
English etymology	422	education of	372
slang	427	elemen. educa.	372
use and abuse, Eng.	428	men, advice to, business ethics	174
vulgarisms	428	Y. M. C. A.	267
Workhouses, asylums	362	buildings	726
parish, societies for	256	Young men's Christian unions	267
Sunday	263	people's religious societies	267
Working classes	331	reading of	028
Workshop receipts, chem. tech.	660	women, advice to, social ethics	177
World, atlases of	912	women's Christian ass'n	267
voyages round	910	Yucatan, Mexico	722
World's fairs	606	architecture	722
plurality of	523	history	972
Worms	595	travel	917.2
Worship		Zambezi	916.7
family	249	Zanzibar, Africa	967
of animals	290	Zechariah	224
idolatry	290	Bible	224
public	264	Zend Avesta	891
Worsteds	677	Persian lit.	891
Wounded, hospitals for	362	religion	295
Wounds	617	language	491
surgery	617	Zephaniah	224
Wrecking and life-saving	614.8	Bible	224
Wrestling	796	Zinc	546
Writing	652	inorganic chemistry	546
books	372	metallurgy	669
for the press	029	ores	553
lit. methods	029	economic geology	553
inks	667	building	695
chemical technology	667	roofs	787
machine	652	Zither	787
materials	652	Zodiac	523
of history	907	astronomy	523
shorthand	653	Zodiacal light	523
Writs	347	Zoofytes	593
Written examinations	371	Zoological gardens	590
Wrongs	347	Zoology	590
Wyoming, U. S.	978.7	Zoosporeae	589
history	978.7	Zoroaster	295
travel	917.87	Zouaves	355
massacre	974.8	Zululand	968
Penn. history	974.8	history	968
Xylophone	789	Zunis	970.3
musical instr.	789	Zurich	949.4
Xylografy	761	history	949.4
		travel	914
		Zwinglian	284
		Protestant sects	284
		Zygosporeae	589
		algae	589
		lichens	589

Topics in black-faced type are subdivided in tables.

SUBJECT INDEX SUPPLEMENT

Abattoirs	architecture	725	Anniversaries, U.S. hist.	civil war	973.7
Abbreviations	English paleograpy	421		revolution	973.3
	Greek paleograpy	481	Annotations for readers		028
	Latin paleograpy	471	Antarctic regions	travel	919.9
Abchasian language		494	Antitrust processes	bldg	691
Abecedarians	christian sect	284	Apetalae	botany	583
Abiogenesis	animals	591	Appendicitis	diseases	616
	biology	576		surgery	617
	plants	581	Appraisal of books		028
Absorption	physiology	612	Arabesques	decoration	729
Academic education		373		design	745
Academies, private	for boys	373	Arctic travels		919.8
	girls	376	Argumentation	rhetoric	808
	mixt	373	Aroostook war	U. S. history	973.5
Accidents, railroad		656	Arrest	civil trials	347
Acclimation	evolution	575		criminal law	343
	mental influences	136	Arsenic ores		553
Accounts, household		647	Arts and crafts		740
Acetylene	chemic technology	665	Asbestos roofing		695
Acetylenes	organic chemistry	547	Asparagus	agriculture	635
Acrobats	ethics	175	Asphalt	chemic technology	665
Acrogens	botany	586		economic geology	553
Adamites	heresy	273		pavements	625
Adaptation	evolution	575		roofing	695
Adding machines		510	Astringents	therapeutics	615
Administration, household		647	Astrophysics	astronomy	523
Adoptionists	heresy	273	Atavism	evolution	575
Adsorption	pneumatics	533	Atlantic telegraf	elec. engin'g	621.3
Aerial navigation	engineering	629	Auditing	accounts	657
Aeronautics	"	629	Audubon societies		179
Aeroplanes	"	629	Augury		133
African languages, Ethiopic		492	Auroras	astronomy	523
Agricultural colony	labor'g classes	331	Austral islands		996
Air, liquid	physics	533	Authority, school		371
Aladdin oven	dom. econ.	643	Automobiles	engineering	629
Alarm, fire	local gov't	352	Automobiling	amusements	798
Alcohol, denatured		661	Autonomy	ethics	171
Aldehydes	organic chemistry	547		polit. science	320
Alfalfa	agriculture	633	Avars	history	950
Algrafy	lithograpy	763	Avatars	Brahmanism	294
Alliteration	prosody	416	Aviation	engineering	629
	rhetoric	808	Babism	Mohamntedan sect	297
Altars	architecture	729	Bacon's rebellion	Virginia history	975.5
Ambidexterity		612	Badminton	games	796
Anglican chant		783	Bags and bagging		677
	sects	283	Ballast	transportation	656
Anglo-Saxon race characteristics		136	Balloons, dirigible	engineering	629
Animals	zoology	590	Basket ball	games	796

Topics in black faced type are subdivided in tables.

Basketry	manufactures	674		pension fund	371
	ornamental	745		Carriages, motor engineering	629
	prehistoric	571		Carriers, mechanical book	022
Beads	decoration	746		Cars, motor engineering	629
	ornaments	391		Casein chemic technology	668
Beadwork	decoration	746		Cases, book library economy	022
Beans	agriculture	635		Catabaptists sects	284
Bedbugs	pests	648		Caterpillars agriculture	632
	zoology	595			economic zoology 591
Bees	agriculture	638			silk culture 638
Beetles	pests	632			systematic zoology 595
Bering sea question	U. S. hist.	973.8		Causality philosophy	122
Berries	fruits	634		Chairs domestic economy	645
Bertillon system	anthropology	573		Characteristics, mental	136
Bibliofily		010		Charismata theology	231
Biennial legislation		328		Charms occultism	133
Birds	agric. aids and pests	632		Charts of statistics	311
	diseases of	619		Chemistry and physics, interrela-	
	game sports	799			tions 541
	poultry	636		Chicken farming	636
	protection	179		Childstudy	136
Births	registration	614		Chills and fever diseases	616
Bitters	therapeutics	615			pub. health 614
Bleeding	surgery	617		Chimney money taxation	336
	therapeutics	615		China ware domestic economy	642
Bloody assizes	English history	942.06		Chinook language	427
Blowpiping	quantitativ analysis	545		Chiromnomy palmistry	133
Boats, life	lifesaving service	656		Chiropody surgery	617
	public safety	614.8		Christian science healing law	614
	shipbuilding	623			sect 289
Bogies	folklore	398			medicin 615
Bolak	universal language	408			theology 230
Boss	Amer. politics	329		Chromophotografy	770
Bowling	amusements	796		Chromoxylografy	761
Boxer uprising	Chinese history	951		Church biografy	922
Brownian motion	physics	539		Church property mon. foundations	271
Bubonic plague	public health	614			polit. science 322
Bulbs	horticulture	716			taxation 336
Butchershops		641		Cigar making	679
Cables	electric engineering	621.3		Cities beautification	710
Cadastration	taxation	336		Citizenship suffrage	324
Calcimining		698		Civil rights constitutional law	342
Calibration	instrument making	681			legal capacity 347
Calorimetry	physics	536			U. S. history 973.8
Calotype	photografy	772		Cleaning	chemic technology 667
Canals	transportation	656			domestic economy 648
Canonization	dogma	235		Clothes	" " 646
Capitalization	English language	421		Collecting	business methods 658
	securities	332		Collodion process	photografy 772
Capon	poultry	636		Colophons	incunabula 093
Care of children		649		Colors, painting	trade 698
Carnegie institution		378			

Topics in black faced type are subdivided in tables.

Combinations, industrial			Currents, electric	physics	537	
political economy	338		Dangers to life, protection against		614.8	
Combs	customs	391	Day nurseries		362	
Commerce, interstate		385	Decoration	design	740	
Commissions, library		027		domestic economy	645	
Communal marriage		392	Demurrage	transportation	656	
Communication	electric engin'g	621.3	Deontology		170	
Commutators	electric engineering	621.3	Design	metaphysics	124	
	physics	537		arguments from	211	
Complex ores	metallurgy	669	Dictation machines		651	
Composit order of architecture		729	Didactics	education	371	
Compromise, Missouri U. S. hist.		973.5	Direct legislation	polit. science	321	
of 1850	" "	973.7		primaries	suffrage	324
Concrete	chemic technology	666	Disarmament	arbitration	341	
Condensed milk	public helth	614.3	Dishes	table ware	642	
Conduction	electricity	537	Dompelaers	baptist sect	286	
	heat	536	Drafting	drawing	744	
Conferences, library		020	Drafts	games	794	
Conics	analytic geometry	516	Dragonade	persecutions	272	
	modern geometry	513	Dragons	folklore	398	
Conscription	U. S. history	973.7	Drawing, mathematical		744	
Constitution of matter	metaphysics	117	Drawnwork	fancywork	746	
	physics	530	Dryplate processes	photografy	772	
Consumers leag		331	Duplicating machines		652	
Consumption	political economy	339	Dynamic engineering		621	
Continuation schools		374	Dynamoelectric machinery		621 3	
Conveyers	engineering	621	Ear, care of	hygiene	613	
Cookery	domestic economy	641	Eastern church		281	
Cooks	domestic economy	647	Education, public	system	379	
Copiers	office equipment	652	El dorado	folklore	398	
Corea	history	951	Electric vehicles	engineering	629	
Cornish pumps	mine drainage	622	Electricity, applied	"	621.3	
Coroners	law	347	Electroanalysis	chemistry	544	
Corpuscular theory of light		535	Electrobiology	biology	577	
	matter	530	Electrophysiology	biology	577	
Correlation method of teaching		371	Electrons	chemistry	541	
Correspondence	autobiografy	920	Electrotherapy	medicin	615	
	commercial	658	Engineering, dynamic		621	
	schools, self education	374	Engineering, electric		621.3	
Corruption, official	ethics	172		illuminating	628	
Cost keeping	accounts	657		industrial	658	
Country life		630	English language		420	
Courses	curriculum	375	Esperanto		408	
Cradle songs	folklore	398	Ether	light	535	
	music	784		physics	530	
Creameries	agriculture	637	Eudemonism	ethics	171	
Cries, battle	war customs	399	Eugenics	evolution	575	
	street	folklore	Evaluation of books		028	
Criminology		364	Evil eye		133	
			Exotics	horticulture	716	
			Facsimiles class with originals			

Topics in black faced type are subdivided in tables.

Factory management	658	Humane societies	179
Fashions costume	391	Ice sports	796
Favorites, royal biography	923	Ideal states political science	320
Fear psychology	157	Illuminating engineering	628
Feldspar economic geology	553	Imperialism political science	325
mineralogy	549	Implements, primitiv	571
Finger prints anthropology	573	Industries “	571
Fireplaces, artistic	749	Infants, diseases of	618
Fireproofing building	693	Initials bibliografy	014
First editions rarities	094	decoration	745
Fish, diseases of	619	Inlay art furniture	749
trade economics	338	Insect powders	648
Fishways fish culture	639	Insecticides agriculture	632
Fleur de lis heraldry	929.6	domestic economy	648
Flowers, national	929.6	Insectifuges “	648
Flying machines engineering	629	Insignia heraldry	929.6
Fools customs	394	Insurance, teachers	371
Forage agriculture	633	International relations polit. sci.	327
Forging blacksmithing	682	Internationalism	341
Formaldehyde chemistry	547	Invalids, care of domestic economy	649
public health	614	Ions chemistry	541
Frauds, art	709	Iron work, ornamental	739
literary	809	Ivory painting	751
Freight interstate commerce	385	Japanese color prints	761
Fylfot ecclesiology	246	Jumping athletics	613.7
heraldry	929.6	Juvenil courts	364
Galvanoplasty manufactures	671	Kalendar	529
Game sport	799	Kinetoscope fotografy	778
Garages, private architecture	728	Kinship customs	392
public “	725	Kodaks fotografy	771
Gargoyles architec. decoration	729	Koomiss, <i>see</i> Kumiss	
Gasoline engines	621	Koumiss, <i>see</i> Kumiss	
vehicles	629	Krypton inorganic chemistry	546
Gelatin manufacture	668	Kumiss adulterations	614.3
Geomorfology geology	551	dairy products	637
Ginseng agriculture	633	Laborsavers, domestic	643
Gipsy moth pests	632	Legislative manuals	328
Gouache painting	751	Legumes agriculture	635
Graft business ethics	174	Lenses fotografy	771
political “	172	Libraries for blind	027
Halftone process fotografy	777	Lighting engineering	628
Hall marks plate	736	systems domestic econ.	644
Halos religious art	246	Liquid air physics	533
Hektograf office appliances	652	Love psychology	157
Heliogravure fotografy	777	Luster ware pottery	738
Hives apiculture	638	Luxury economics	339
Hocky outdoor sports	796	ethics	177
Home domestic economy	643	Lyddite chemic technology	662
economics	640	Madonna, legends of	225
House domestic economy	643	Mary, Virgin biography	225
care of “ “	648	Menageries amusements	791
tax political “	336	Mending domestic economy	646
Household administration	647	Metalwork, artistic	739

Topics in black-faced type are subdivided in tables.

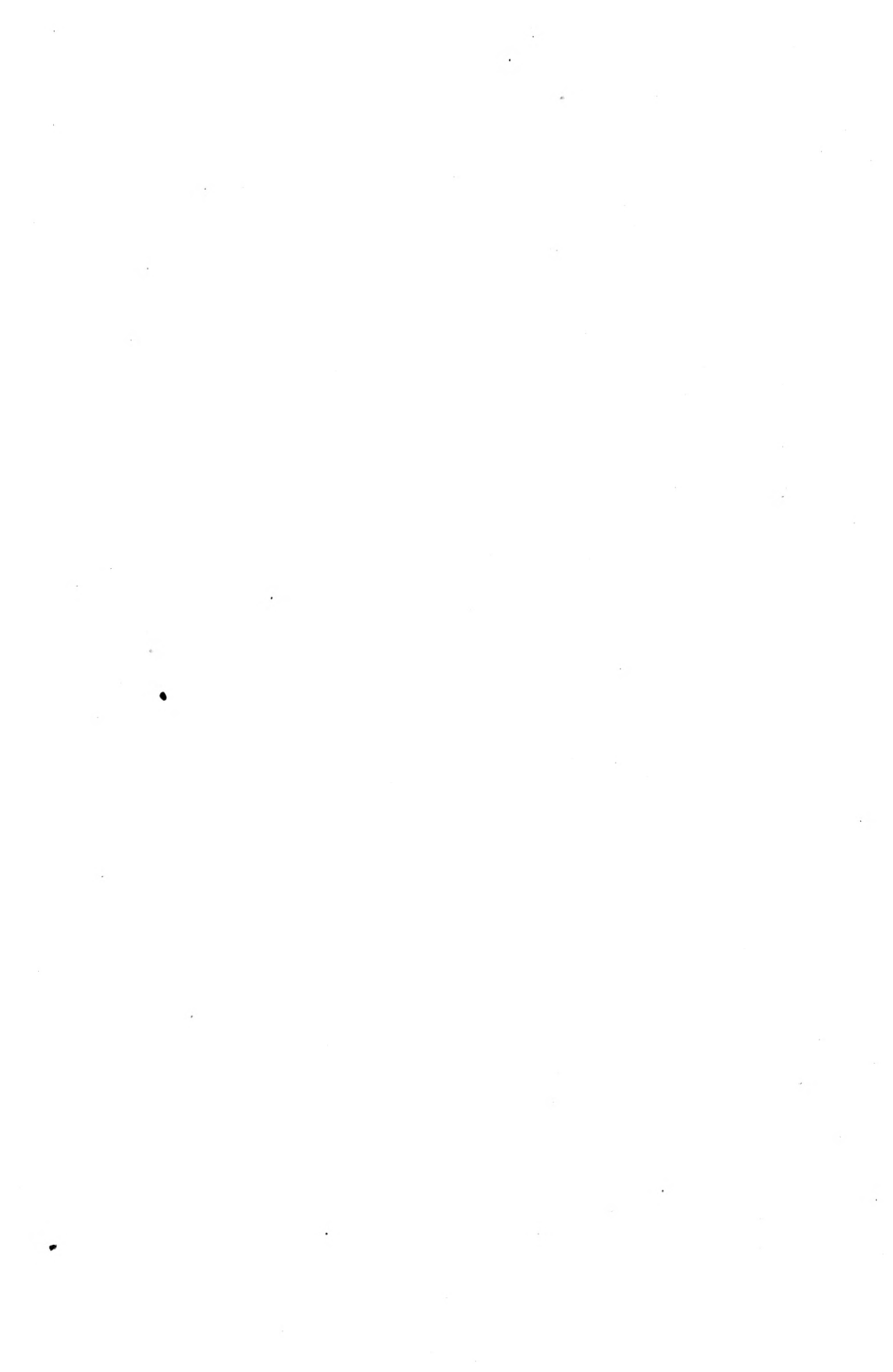
Milk	dietetics	613	Parsifal	legends	398
Mimeograf	office fittings	652		opera	782
Mind	childstudy	136	Pasteurization	infant diet	613
Molding	metal manufacture	671	Patent medicins	therapeutics	615
Monsters, fabulous	folklore	398	Pestifuges	domestic economy	648
Moth, gipsy	pests	632	Pests, household	" "	648
Moths	agriculture	632	Philadelphia	exposition 1876	606
Motor vehicles		629	Photogammetry	photografy	778
Mountaineering	hygiene	613.7	Physical chemistry		541
	sports	796	Physicochemistry		541
Mushrooms	culture	635	Pianola		789
National conservation		333	Picture frames	decoration	749
	resources conservation	333	Pigeons	domestic birds	636
Nations, origin of		901	Pigments	fine arts	751
	rise of Europ. history	940	Pigmies	folklore	398
Natural law	science	501	Plan of house	domestic economy	643
Nature, law of	science	501	Political history		900
	unity of metaphysics	110	Polyglot dictionaries		413
	science	501	Pragmatism	philosofy	149
Neostyle	office equipment	652	Prevention of cruelty	ethics	179
Nicaragua canal	engineering	626	Prisms	lighting	628
	sociology	387	Probation of malefactors		364
Noise	public health	614.8	Promiscuity	customs	392
Norwegian haybox	cookery	641	Psalms	hymnology	245
	utensils	643	Psychologic medicin	diseases	616
Numbering machines	office	652	Public service	commissions	380
	lib. econ.	025	Pump, air	practical chemistry	542
Nurses	domestic service	647	Pyrografy	fine arts	736
Nuts	agriculture	634	Raffia	agriculture	633
Obsession		133	Rarities	bibliografy	090
Occultism		133	Rat	disease carrier	614
Od	mind and body	134		domestic economy	648
Odylic force		134	Receptions	" "	642
Ore sampling	assaying	669	Refreshments	" "	642
Ores	chemic analysis	543	Regattas	amusements	797
Organ	musical instruments	786		college and school	371
Organization	central gov't, U S	353	Registration of land	Torrens	
Osteopathy	therapeutics	615		system	333
Oxids	mineralogy	549	Relations, international		327
	theoretic chemistry	541		of church & state pol. sci.	322
Oxygen compounds	mineralogy	549	Relief work	charity	361
Paleografy	inscriptions	417		parish	258
Pamirs	history	958	Religious ceremonies	ritual	264
Paneld construction	carpentry	694	Rice	agriculture	633
Panels	arch. decoration	729	Rolling mills	metal manufacture	671
Panics, commercial	money	332	Roman empire, Holy		943
	production	338	Rope walking	entertainments	791
	trade	381	Rugs	domestic economy	645
Pantomimes	drama	792		manufactures	677
Paralysis	diseases	616		design	745
	infantil diseases	616	Sage foundation		306
	public health	614	Saints in art	ecclesiology	246
	surgery	617		painting	755

Topics in black-faced type are subdivided in tables.

Saints, Latter day doctrin	298	Streams, pollution factory waste	628
Samaritans sects	296	Street sprinkling	628
Sanitary measures dom. econ.	648	Student self-government	371
Satanism doctrinal theology	235	Study clubs	374
witchcraft	133	Sudan, Africa history	966.2
Savoy, house of Ital. history	945	Egypt "	962.6
Scholarships research	378	Suggestion hypnotism	134
school tuition	371	Surinam, S. Amer. history	988
Screens, food	648	Swastika ecclesiology	246
Scriptural biography N. T.	225	heraldry	929.6
O. T.	221	Swedish gymnastics hygiene	613.7
Sectarian teaching in schools	377	Swindling law	343
Semitic literatures	892	Swords war customs	399
Separators, cream dairy	637	Syria modern history	956
Sewing, plain dom. economy	646	Systems, filosofic	140
Shaving customs	391	Table domestic economy	642
toilet	646	Tables, furniture " "	645
Shelter domestic economy	643	Taboo religion	299
Shields heraldry	929.6	Talbotypes	772
weapons	399	Tar roads	625
Shintoism	299	Tattooing customs	391
Silver question political economy	332	Tea beverages	641
Single tax	336	Telegraf codes	652
Skeeing sports	796	Telepathy mind and body	134
Skiing sports	796	Telpherage mechanical engin'g	621
Skin dressing taxidermy	579	Telephot photography	778
Slaughtering industry	664	Tenements domestic economy	647
Slavic literatures	891	Tennis lawn	796
Slide rule math. instruments	510	parlor	794
Sliding shelves library storage	022	Terbium inorganic chem.	546
Sloyd education	371	Teutonic race ethnology	572
Smithsonian exchanges lib. econ.	021	Textbooks, free public schools	379
Snowshoeing sports	796	state " "	379
Societies, college	371	Thermometry physics	536
secret	366	physiology	612
Somatology anthropology	573	Tintypes photography	772
Sounds, systems of phonology	414	Tires, rubber manufactures	678
Southwest, U S history	978	Tobacco pipes manufactures	679
Splügen pass Alps	914.94	Tobogganing sports	796
Stacks library economy	022	Token money numismatics	737
Stadia surveying	526	political economy	332
Stage coach transportation	656	Torrens system	333
Stairs, moving mechanical engin'g	621	Totemism	392
Stamp collecting	383	Trade, balance of commerce	382
State aid to libraries	021	catalogs bibliografy	015
and church pol. science	322	Trading companies	338
Steam engineering	621.1	stamps	658
Stencil decoration	747	Tramways electric engineering	621.3
Sterilization food preservation	641	Trance hypnotism	134
infant feeding	613	Traps domestic economy	648
Still life painting	754	sanitary engineering	628
Stores, department	658	Traveling libraries lib. econ.	021
Stoves kitchen equipment	643	Tricks sleight of hand	791

Topics in black-faced type are subdivided in tables

Trout fishing	sports	799	War dances	399
Trucks, book	library economy	022	Water marks	paper manuf. 676
Trustees, library		023	power	hydraulic engin'g 627
Trusts	corporations	338	underground	phys. geog. 551
Tuberculosis	diseases	616	Waterproofing	building 691
	public health	614	Wave theory	sound 534
Turpentine	chemic technology	665	Weirs	hydraulic engineering 627
Upholstery	domestic economy	645		" machinery 621
Use of library	library economy	024		hydraulics 532
Vacation schools		374	Western hemisphere	geografy 917
Vacations, school		371	Wharves	engineering 627
Vacuum cleaners	domestic econ.	648	Whipping post	343
Values, educational	curriculum	375	Whisky traffic	178
food	domestic economy	641	Winter resorts	hygiene 613
Vampire	folklore	398	sports	796
Vapor lamps	electric lighting	621.3	Wire	manufacture 671
Vaulting	athletics	613.7	Wolfram	inorganic chemistry 546
Veneer	manufacture	674	Wood alcohol	chemic technology 661
Veneering	cabinet work	684	Wringers, clothes	laundry 648
Ventilation	domestic economy	644	Xenon	inorganic chemistry 546
Vice	education	379	Young	child study 136
Villains	feudalism	321.3		counsels to ethics 173
Villenage	"	321.3	Ytterbium	inorganic chemistry 546
Virgin Mary	biografy	225	Yttrium	" " 546
Vocational education		371	Zincografy	767
Voltaic cells	engineering	621.3	Zirconium	inorganic chemistry 546
Voyages, Antarctic		919.9	Zoophytes	593





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